

Vicarious Contact PSRM Replication: Cleaning

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Cleaning

```
#reasons given - quick look
table(w1_drop$dropReason)

##
## Duplicate Open ends Skipping Speeding
##      54      285      25      30

#Duplicate = 54
#Open ends = 285
#Skipping = 25
#Speeding = 30

#create treatment assignment variables
w1_drop <- w1_drop %>%
```

```

mutate(video_treatment = #video treatment
  case_when(
    video_treatment == 1 ~ "Treatment Long",
    video_treatment == 2 ~ "Treatment Short PMC",
    video_treatment == 3 ~ "Treatment Short VC",
    video_treatment == 4 ~ "Placebo Control",
    video_treatment == 5 ~ "Empty Control",
  ),
  video_disp =
  case_when(
    video_disp == 1 ~ "Full social proofing",
    video_disp == 2 ~ "Full meta",
    video_disp == 3 ~ "Full efficacy",
    video_disp == 4 ~ "Pmc social proofing",
    video_disp == 5 ~ "Pmc efficacy",
    video_disp == 6 ~ "Pmc meta",
    video_disp == 7 ~ "Vc social proofing",
    video_disp == 8 ~ "Vc efficacy",
    video_disp == 9 ~ "Vc meta",
    video_disp == 10 ~ "Control video"
  )
)

#table(final_drops$dropReason_w3)
#table(w1_drop$video_treatment)

#check
table(is.na(w1_drop$video_treatment))

##
## FALSE TRUE
## 340 54

#38+72+79+71+80 #340 participants have assigned treatment: those who don't are duplicates.

#check nudges: 302 assigned nudge (difference due to empty control)
table(is.na(w1_drop$caseid))

##
## FALSE
## 394

#add removed in w1 dummy
w1_drop <- w1_drop %>%
  mutate(
    w1_dropped = 1
  )

#add wave 1 reason dummy
w1_drop <- w1_drop %>%
  mutate(
    w1_reason = dropReason
  )

#remove those without treatment assignment

```

```

w1_drop <- w1_drop %>%
  filter(!is.na(video_treatment))

table(w1_drop$dropReason)

##
## Open ends  Skipping  Speeding
##      285      25      30

#add removed in w2 dummy
w2_drop <- w2_drop %>%
  mutate(
    w2_dropped = if_else(dropReason != "Removed in wave 1", 1, 0)
  )

#check wave 2 only
w2_drop <- w2_drop %>%
  mutate(
    affpol_raw =
      if_else(is.na(Q1_w2), 0, 1) |
      if_else(is.na(Q2_w2), 0, 1) |
      if_else(is.na(Q3_w2), 0, 1) |
      if_else(is.na(Q4_w2), 0, 1) |
      if_else(is.na(Q5_w2), 0, 1) |
      if_else(is.na(Q6_w2), 0, 1) |
      if_else(is.na(Q7_w2), 0, 1) |
      if_else(is.na(Q7_lean_w2), 0, 1)
  )

table(is.na(as.numeric(w2_drop$affpol_raw)))

##
## FALSE
## 401

w3_drop <- w3_drop %>%
  mutate(
    w3_dropped = if_else(dropReason != "Removed in wave 1", 1,0)
  )

table(w3_drop$w3_dropped)

##
## 0 1
## 351 101

w3_drop <- w3_drop %>%
  mutate(
    starttime_w3 = starttime,
    endtime_w3 = endtime
  )

#check wave 3 only
w3_drop <- w3_drop %>%
  mutate(
    affpol_raw =

```

```

    if_else(is.na(as.numeric(Q1_w3)), 0, 1) |
    if_else(is.na(as.numeric(Q2_w3)), 0, 1) |
    if_else(is.na(as.numeric(Q3_w3)), 0, 1) |
    if_else(is.na(as.numeric(Q4_w3)), 0, 1) |
    if_else(is.na(as.numeric(Q5_w3)), 0, 1) |
    if_else(is.na(as.numeric(Q6_w3)), 0, 1) |
    if_else(is.na(as.numeric(Q7_w3)), 0, 1) |
    if_else(is.na(as.numeric(Q7_lean_w3)), 0, 1)
  )

table(is.na(w3_drop$affpol_raw))

##
## FALSE
## 452

#column names
vars <- colnames(w1_drop)
vars

## [1] "caseid"           "dropReason"       "consent"
## [4] "consent2"         "Q1"                "Q2"
## [7] "Q4"               "Q5"                "Q6"
## [10] "Q7"               "Q7_open"           "Q8"
## [13] "q9"               "q9_dk_flag"        "q10"
## [16] "q10_dk_flag"      "q11"               "q11_dk_flag"
## [19] "q12"              "q12_dk_flag"       "q13"
## [22] "q13_dk_flag"      "video_treatment"  "video_disp"
## [25] "Q19"              "Q20"               "Q21"
## [28] "Q22"              "Q23"               "Q24"
## [31] "Q74_w1"           "Q75_w1"            "Q25"
## [34] "Q26"              "Q27"               "birthyr"
## [37] "gender"           "race"              "race_other"
## [40] "educ"             "inputstate"        "region"
## [43] "pid3"             "pid7"              "marstat"
## [46] "child18"          "employ"            "faminc_new"
## [49] "votereg"          "turnout20post"     "presvote20post"
## [52] "presvote20post_t" "ideo5"              "newsint"
## [55] "presvote16post"   "presvote16post_t" "pew_bornagain"
## [58] "pew_religimp"     "pew_churatd"       "pew_prayer"
## [61] "religpew"         "religpew_protestant" "w1_dropped"
## [64] "w1_reason"

#modify column names for merge, caseid, drop reason, and demographics
newvars <- vars[c(1,2, 36:62)]

#merge wave 2 and wave 1 drops
tmp_drop <- left_join(w1_drop, w2_drop, by="caseid")

summary(tmp_drop$Q1_w2) #103 NAs

##      Min. 1st Qu.  Median    Mean 3rd Qu.    Max.    NA's
##      0.00  43.75   69.00  211.06  94.75  998.00    66

```

```
table(tmp_drop$Q1_w2) #47 non-values
```

```
##
##  0  1  2  3  4  5  6 10 11 14 15 16 18 19 20 22 23 25 26 27
##  9  3  2  1  3  2  2  2  4  1  1  2  1  1  4  2  1  1  2  2
## 28 29 30 32 33 34 35 36 37 38 40 41 43 46 47 48 49 50 51 52
##  1  1  1  2  1  1  2  2  2  3  5  1  1  2  5  2  2 13  4  2
## 53 54 55 56 57 58 59 60 61 63 64 65 68 69 70 71 72 73 74 75
##  4  3  2  5  1  3  1  3  3  5  3  1  3  3  6  1  4  1  2  4
## 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95
##  2  1  2  1  7  3  3  1  2  1  1  2  1  2  8  3  2  3  3  5
## 96 97 98 99 100 997 998
##  1  3  2  5  8 41  4
```

```
103+47 #150
```

```
## [1] 150
```

```
795-478 #still 317
```

```
## [1] 317
```

```
table(is.na(tmp_drop$video_treatment))
```

```
##
## FALSE
## 340
```

```
check <- intersect(tmp_drop$caseid, w2_drop$caseid)
check2 <- intersect(w1_drop$caseid, w3_drop$caseid)
```

```
#remove those without video treatment
```

```
tmp_drop <- tmp_drop %>%
  filter(!is.na(video_treatment))
```

```
#remove duplicates based on caseid, but prioritize non-NA values on affective polarization index to avoid
```

```
tmp_drop <- tmp_drop %>%
  arrange(desc(!is.na(as.numeric(Q1_w2))),
           # desc(!is.na(as.numeric(Q3_w2))),
           # desc(!is.na(as.numeric(Q4_w2))),
           # desc(!is.na(as.numeric(Q5_w2))),
           # desc(!is.na(as.numeric(Q6_w2))),
           #desc(!is.na(as.numeric(Q7_w2))),
           #desc(!is.na(as.numeric(Q7_lean_w2)))
  )%>%
  distinct(caseid, .keep_all = T)
```

```
table(is.na(tmp_drop$caseid))
```

```
##
## FALSE
## 340
```

```
summary(tmp_drop$Q1_w2)
```

```
##      Min. 1st Qu.  Median    Mean 3rd Qu.    Max.   NA's
```

```
## 0.00 43.75 69.00 211.06 94.75 998.00 66
```

```
table(tmp_drop$Q1_w2)
```

```
##
## 0 1 2 3 4 5 6 10 11 14 15 16 18 19 20 22 23 25 26 27
## 9 3 2 1 3 2 2 2 4 1 1 2 1 1 4 2 1 1 2 2
## 28 29 30 32 33 34 35 36 37 38 40 41 43 46 47 48 49 50 51 52
## 1 1 1 2 1 1 2 2 2 3 5 1 1 2 5 2 2 13 4 2
## 53 54 55 56 57 58 59 60 61 63 64 65 68 69 70 71 72 73 74 75
## 4 3 2 5 1 3 1 3 3 5 3 1 3 3 6 1 4 1 2 4
## 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95
## 2 1 2 1 7 3 3 1 2 1 1 2 1 2 8 3 2 3 3 5
## 96 97 98 99 100 997 998
## 1 3 2 5 8 41 4
```

```
#131 NAs
```

```
#56
```

```
131+56
```

```
## [1] 187
```

```
493-187
```

```
## [1] 306
```

```
306
```

```
## [1] 306
```

```
#find duplicate variables
```

```
w1_w2_vars <- colnames(tmp_drop)
```

```
#create new variables
```

```
colnames(w3_drop)
```

```
## [1] "caseid" "dropReason" "Q1_w3_dk_flag"
## [4] "Q2_w3_dk_flag" "Q13_w3" "Q14_w3"
## [7] "Q15_w3" "Q16_w3" "Q17_w3"
## [10] "Q18_w3" "Q19_w3" "Q20_w3"
## [13] "Q21_w3" "Q22_w3" "Q24_w3"
## [16] "Q25_w3" "Q26_w3" "Q27_w3"
## [19] "Q28_w3" "Q29_w3" "Q30_w3"
## [22] "Q31_w3" "Q32_w3" "Q33_w3"
## [25] "Q34_w3" "Q35_w3" "Q37_w3"
## [28] "Q38_w3" "Q39_w3" "Q40_w3"
## [31] "Q43_w3" "Q44_w3" "Q45_w3"
## [34] "Q46_w3" "Q47_w3" "Q48_w3"
## [37] "Q49_w3" "Q50_w3" "Q51_w3"
## [40] "Q52_w3" "Q52_w3_dk_flag" "Q53_w3"
## [43] "Q53_w3_dk_flag" "Q54_w3" "Q54_w3_dk_flag"
## [46] "Q55_w3" "Q55_w3_dk_flag" "Q56_w3"
## [49] "Q56_w3_dk_flag" "Q57_w3" "Q57_w3_dk_flag"
## [52] "Q58_w3" "Q58_w3_dk_flag" "Q59_w3"
## [55] "Q59_w3_dk_flag" "Q60_w3" "Q61_w3"
## [58] "Q62_w3" "Q63_w3" "Q64_w3"
## [61] "Q65_w3" "Q66_w3" "Q67_w3"
## [64] "Q68_w3" "Q69_w3" "Q70_w3"
```

```
## [67] "Q71_w3"           "Q72_w3"           "Q82_w3_links_clicked"
## [70] "Q82_w3_signedup" "Q83_w3"           "Q84_w3"
## [73] "Q85_w3"           "Q1_w3"            "Q2_w3"
## [76] "Q3_w3"            "Q4_w3"            "Q5_w3"
## [79] "Q6_w3"            "Q7_w3"            "Q7_lean_w3"
## [82] "starttime"        "endtime"          "birthyr"
## [85] "gender"           "race"              "race_other"
## [88] "educ"             "inputstate"       "region"
## [91] "pid3"             "pid7"              "marstat"
## [94] "child18"          "employ"            "faminc_new"
## [97] "votereg"          "turnout20post"    "presvote20post"
## [100] "presvote20post_t" "ideo5"             "newsint"
## [103] "presvote16post"   "presvote16post_t" "pew_bornagain"
## [106] "pew_religimp"     "pew_churatd"      "pew_prayer"
## [109] "religpew"         "religpew_protestant" "w3_dropped"
## [112] "starttime_w3"     "endtime_w3"       "affpol_raw"
```

```
merge_vars = w1_w2_vars[c(1,2, 111:137)]
```

```
#merge all three wave drops
```

```
all_drops <- left_join(tmp_drop,w3_drop, by="caseid")
```

```
table(is.na(all_drops$video_treatment))
```

```
##
## FALSE
## 340
```

```
#remove duplicates
```

```
all_drops <- all_drops %>%
  distinct(caseid, .keep_all=T)
```

```
table((tmp_drop$Q1_w2))
```

```
##
## 0 1 2 3 4 5 6 10 11 14 15 16 18 19 20 22 23 25 26 27
## 9 3 2 1 3 2 2 2 4 1 1 2 1 1 4 2 1 1 2 2
## 28 29 30 32 33 34 35 36 37 38 40 41 43 46 47 48 49 50 51 52
## 1 1 1 2 1 1 2 2 2 3 5 1 1 2 5 2 2 13 4 2
## 53 54 55 56 57 58 59 60 61 63 64 65 68 69 70 71 72 73 74 75
## 4 3 2 5 1 3 1 3 3 5 3 1 3 3 6 1 4 1 2 4
## 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95
## 2 1 2 1 7 3 3 1 2 1 1 2 1 2 8 3 2 3 3 5
## 96 97 98 99 100 997 998
## 1 3 2 5 8 41 4
```

```
summary(tmp_drop$Q1_w2)
```

```
## Min. 1st Qu. Median Mean 3rd Qu. Max. NA's
## 0.00 43.75 69.00 211.06 94.75 998.00 66
```

```
#create dummy "bad case" variable
```

```
all_drops <- all_drops %>%
```

```
  mutate(
    bad_case = 1
  )
```

```
table(is.na(tmp_drop$Q1_w2))
```

```
##  
## FALSE TRUE  
## 274 66
```

```
#create dummy for aff_pol data
```

```
all_drops <- all_drops %>%  
  mutate(  
    affpol_raw =  
      if_else(is.na(Q1_w2), 0, 1) |  
      if_else(is.na(Q2_w2), 0, 1) |  
      if_else(is.na(Q3_w2), 0, 1) |  
      if_else(is.na(Q4_w2), 0, 1) |  
      if_else(is.na(Q5_w2), 0, 1) |  
      if_else(is.na(Q6_w2), 0, 1) |  
      if_else(is.na(Q7_w2), 0, 1) |  
      if_else(is.na(Q7_lean_w2), 0, 1)  
  )
```

```
#340 raw affpol scores of 641
```

```
table(all_drops$affpol_raw)
```

```
##  
## FALSE TRUE  
## 66 274
```

```
#modify variables to match prior to merging
```

```
#gender
```

```
all_drops <- all_drops %>%  
  mutate(  
    gender = case_when(  
      gender == 1 ~ "Male",  
      gender == 2 ~ "Female"  
    )  
  )
```

```
#race
```

```
all_drops <- all_drops %>%  
  mutate(  
    race = case_when(  
      race == 1 ~ "White",  
      race == 2 ~ "Black",  
      race == 3 ~ "Hispanic",  
      race == 4 ~ "Asian",  
      race == 5 ~ "Native American",  
      race == 6 ~ "Two or more races",  
      race == 7 ~ "Other",  
      race == 8 ~ "Middle Eastern"  
    )  
  )
```

```
#education
```

```
all_drops <- all_drops %>%
```

```
mutate(
  educ = case_when(
    educ == 1 ~ "No HS",
    educ == 2 ~ "High school graduate",
    educ == 3 ~ "Some college",
    educ == 4 ~ "2-year",
    educ == 5 ~ "4-year",
    educ == 6 ~ "Post-grad",
  )
)
```

```
states <- state.name
```

```
states[5]
```

```
## [1] "California"
```

```
#state
```

```
all_drops <- all_drops %>%
```

```
mutate(
  inputstate = case_when(
    inputstate == 1 ~ states[1],
    inputstate == 2 ~ states[2],
    inputstate == 4 ~ states[3],
    inputstate == 5 ~ states[4],
    inputstate == 6 ~ states[5],
    inputstate == 8 ~ states[6],
    inputstate == 9 ~ states[7],
    inputstate == 10 ~ states[8],
    inputstate == 11 ~ "District of Columbia",
    inputstate == 12 ~ states[9],
    inputstate == 13 ~ states[10],
    inputstate == 15 ~ states[11],
    inputstate == 16 ~ states[12],
    inputstate == 17 ~ states[13],
    inputstate == 18 ~ states[14],
    inputstate == 19 ~ states[15],
    inputstate == 20 ~ states[16],
    inputstate == 21 ~ states[17],
    inputstate == 22 ~ states[18],
    inputstate == 23 ~ states[19],
    inputstate == 24 ~ states[20],
    inputstate == 25 ~ states[21],
    inputstate == 26 ~ states[22],
    inputstate == 27 ~ states[23],
    inputstate == 28 ~ states[24],
    inputstate == 29 ~ states[25],
    inputstate == 30 ~ states[26],
    inputstate == 31 ~ states[27],
    inputstate == 32 ~ states[28],
    inputstate == 33 ~ states[29],
    inputstate == 34 ~ states[30],
    inputstate == 35 ~ states[31],
    inputstate == 36 ~ states[32],
```

```

inputstate == 37 ~ states[33],
inputstate == 38 ~ states[34],
inputstate == 39 ~ states[35],
inputstate == 40 ~ states[36],
inputstate == 41 ~ states[37],
inputstate == 42 ~ states[38],
inputstate == 44 ~ states[39],
inputstate == 45 ~ states[40],
inputstate == 46 ~ states[41],
inputstate == 47 ~ states[42],
inputstate == 48 ~ states[43],
inputstate == 49 ~ states[44],
inputstate == 50 ~ states[45],
inputstate == 51 ~ states[46],
inputstate == 53 ~ states[47],
inputstate == 54 ~ states[48],
inputstate == 55 ~ states[49],
inputstate == 56 ~ states[50]
)
)

```

```
table(all_drops$inputstate)
```

```

##
##      Alabama      Arizona      Arkansas      California      Colorado
##           6           4           2           24           2
## Connecticut  Delaware      Florida      Georgia      Hawaii
##           4           2           13           7           1
##      Idaho      Illinois      Indiana      Kansas      Kentucky
##           2           11           4           3           2
## Louisiana      Maine  Massachusetts      Michigan      Minnesota
##           3           1           2           4           6
## Mississippi      Missouri      Montana      Nebraska      Nevada
##           3           7           2           2           3
## New Jersey      New Mexico      New York  North Carolina      Ohio
##           4           3           22           6           5
##      Oklahoma      Oregon      Pennsylvania  South Carolina      South Dakota
##           5           2           8           2           3
## Tennessee      Texas           Utah           Vermont      Virginia
##           2           19           1           1           7
## Washington  West Virginia      Wisconsin
##           7           1           1

```

```

#region
all_drops <- all_drops %>%
  mutate(
    region = case_when(
      region == 1 ~ "Northeast",
      region == 2 ~ "Midwest",
      region == 3 ~ "South",
      region == 4 ~ "West"
    )
  )
)

```

```

#marstat
all_drops <- all_drops %>%
  mutate(
    marstat = case_when(
      marstat == 1 ~ "Married" ,
      marstat == 2 ~ "Separated",
      marstat == 3 ~ "Divorced",
      marstat == 4 ~ "Widowed",
      marstat == 5 ~ "Never married",
      marstat == 6 ~ "Domestic / civil partnership",
      marstat == 8 ~ "skipped"
    )
  )

```

```

#child18
all_drops <- all_drops %>%
  mutate(
    child18 = case_when(
      child18 == 1 ~ "Yes" ,
      child18 == 2 ~ "No",
      child18 == 8 ~ "skipped"
    )
  )

```

```

#employ
all_drops <- all_drops %>%
  mutate(
    employ = case_when(
      employ == 1 ~ "Full-time" ,
      employ == 2 ~ "Part-time",
      employ == 3 ~ "Temporarily laid off",
      employ == 4 ~ "Unemployed",
      employ == 5 ~ "Retired",
      employ == 6 ~ "Permanently disabled",
      employ == 7 ~ "Homemaker",
      employ == 8 ~ "Student",
      employ == 9 ~ "Other",
      employ == 98 ~ "skipped"
    )
  )

```

```

#income
all_drops <- all_drops %>%
  mutate(
    faminc_new = case_when(
      faminc_new == 1 ~ "Less than $10,000",
      faminc_new == 2 ~ "$10,000 - $19,000",
      faminc_new == 3 ~ "$20,000 - $29,999",
      faminc_new == 4 ~ "$30,000 - $39,999",
      faminc_new == 5 ~ "$40,000 - $49,999",
      faminc_new == 6 ~ "$50,000 - $59,999",
      faminc_new == 7 ~ "$60,000 - $69,999",

```

```

    faminc_new == 8 ~ "$70,000 - $79,999",
    faminc_new == 9 ~ "$80,000 - $99,999",
    faminc_new == 10 ~ "$100,000 - $119,999",
    faminc_new == 11 ~ "$120,000 - $149,999",
    faminc_new == 12 ~ "$150,000 - $199,999",
    faminc_new == 13 ~ "$200,000 - $249,999",
    faminc_new == 14 ~ "$250,000 - $349,999",
    faminc_new == 15 ~ "$350,000 - $499,999",
    faminc_new == 16 ~ "$500,000 or more",
    faminc_new == 97 ~ "Prefer not to say",
    faminc_new == 998 ~ "skipped"
  )
)

#voter registration
all_drops <- all_drops %>%
  mutate(
    votereg = case_when(
      votereg == 1 ~ "Yes",
      votereg == 2 ~ "No",
      votereg == 3 ~ "Don't know",
      votereg == 8 ~ "skipped",
    )
  )

#turnout20post
all_drops <- all_drops %>%
  mutate(
    turnout20post = case_when(
      turnout20post == 1 ~ "Yes",
      turnout20post == 2 ~ "No",
      turnout20post == 8 ~ "skipped"
    )
  )

#presidential vote 2020
all_drops <- all_drops %>%
  mutate(
    presvote20post = case_when(
      presvote20post == 1 ~ "Joe Biden",
      presvote20post == 2 ~ "Donald Trump",
      presvote20post == 3 ~ "Jo Jorgensen",
      presvote20post == 4 ~ "Howie Hawkins",
      presvote20post == 5 ~ "Other",
      presvote20post == 6 ~ "Did not vote for President",
      presvote20post == 8 ~ "skipped"
    )
  )

#ideology
all_drops <- all_drops %>%
  mutate(
    ideo5 = case_when(

```

```

    ideo5 == 1 ~ "Very liberal",
    ideo5 == 2 ~ "Liberal",
    ideo5 == 3 ~ "Moderate",
    ideo5 == 4 ~ "Conservative",
    ideo5 == 5 ~ "Very conservative"
  )
)

#news interest
all_drops <- all_drops %>%
  mutate(
    newsint = case_when(
      newsint == 1 ~ "Most of the time",
      newsint == 2 ~ "Some of the time",
      newsint == 3 ~ "Only now and then",
      newsint == 4 ~ "Hardly at all",
      newsint == 7 ~ "Don't know",
      newsint == 98 ~ "skipped"
    )
  )

#presidential vote 2016
all_drops <- all_drops %>%
  mutate(
    presvote16post = case_when(
      presvote16post == 1 ~ "Hillary Clinton",
      presvote16post == 2 ~ "Donald Trump",
      presvote16post == 3 ~ "Gary Johnson",
      presvote16post == 4 ~ "Jill Stein",
      presvote16post == 5 ~ "Evan McMullin",
      presvote16post == 6 ~ "Other",
      presvote16post == 7 ~ "Did not vote for President",
      presvote16post == 98 ~ "skipped"
    )
  )

#born again
all_drops <- all_drops %>%
  mutate(
    pew_bornagain = case_when(
      pew_bornagain == 1 ~ "Yes",
      pew_bornagain == 2 ~ "No",
      pew_bornagain == 8 ~ "skipped",
    )
  )

#importance of religion
all_drops <- all_drops %>%
  mutate(
    pew_religimp = case_when(
      pew_religimp == 1 ~ "Very important",
      pew_religimp == 2 ~ "Somewhat important",

```

```

    pew_religimp == 3 ~ "Not too important",
    pew_religimp == 4 ~ "Not at all important",
    pew_religimp == 8 ~ "skipped"
  )
)

#pew prayer
all_drops <- all_drops %>%
  mutate(
    pew_prayer = case_when(
      pew_prayer == 1 ~ "Several times a day",
      pew_prayer == 2 ~ "Once a day",
      pew_prayer == 3 ~ "A few times a week",
      pew_prayer == 4 ~ "Once a week",
      pew_prayer == 5 ~ "A few times a month",
      pew_prayer == 6 ~ "Seldom",
      pew_prayer == 7 ~ "Never",
      pew_prayer == 8 ~ "Don't know",
      pew_prayer == 98 ~ "skipped"
    )
  )

#religion
all_drops <- all_drops %>%
  mutate(
    religpew = case_when(
      religpew == 1 ~ "Protestant",
      religpew == 2 ~ "Roman Catholic",
      religpew == 3 ~ "Mormon",
      religpew == 4 ~ "Eastern or Greek Orthodox",
      religpew == 5 ~ "Jewish",
      religpew == 6 ~ "Muslim",
      religpew == 7 ~ "Buddhist",
      religpew == 8 ~ "Hindu",
      religpew == 9 ~ "Atheist",
      religpew == 10 ~ "Agnostic",
      religpew == 11 ~ "Nothing in particular",
      religpew == 12 ~ "Something else",
      religpew == 98 ~ "skipped"
    )
  )

#consent
all_drops <- all_drops %>%
  mutate(
    consent = case_when(
      consent == 1 ~ "Yes",
      consent == 2 ~ "No"
    )
  )

#consent 2
all_drops <- all_drops %>%

```

```

mutate(
  consent2 = case_when(
    consent2 == 1 ~ "Proceed",
    consent2 == 2 ~ "Do not want to participate"
  )
)

#church attendance
all_drops <- all_drops %>%
  mutate(
    pew_churatd = case_when(
      pew_churatd == 1 ~ "More than once a week",
      pew_churatd == 2 ~ "Once a week",
      pew_churatd == 3 ~ "Once or twice a month",
      pew_churatd == 4 ~ "A few times a year",
      pew_churatd == 5 ~ "Seldom",
      pew_churatd == 6 ~ "Never",
      pew_churatd == 7 ~ "Don't know",
      pew_churatd == 98 ~ "skipped"
    )
  )

```

#modify variables to match prior to merging

#gender

```

full_drops <- full_drops %>%
  mutate(
    gender = case_when(
      gender == 1 ~ "Male",
      gender == 2 ~ "Female"
    )
  )

```

#race

```

full_drops <- full_drops %>%
  mutate(
    race = case_when(
      race == 1 ~ "White",
      race == 2 ~ "Black",
      race == 3 ~ "Hispanic",
      race == 4 ~ "Asian",
      race == 5 ~ "Native American",
      race == 6 ~ "Two or more races",
      race == 7 ~ "Other",
      race == 8 ~ "Middle Eastern"
    )
  )

```

#education

```

full_drops <- full_drops %>%
  mutate(
    educ = case_when(
      educ == 1 ~ "No HS",
      educ == 2 ~ "High school graduate",

```

```

educ == 3 ~ "Some college",
educ == 4 ~ "2-year",
educ == 5 ~ "4-year",
educ == 6 ~ "Post-grad",
)
)

states <- state.name

states[5]

## [1] "California"

#state
full_drops <- full_drops %>%
  mutate(
    inputstate = case_when(
      inputstate == 1 ~ states[1],
      inputstate == 2 ~ states[2],
      inputstate == 4 ~ states[3],
      inputstate == 5 ~ states[4],
      inputstate == 6 ~ states[5],
      inputstate == 8 ~ states[6],
      inputstate == 9 ~ states[7],
      inputstate == 10 ~ states[8],
      inputstate == 11 ~ "District of Columbia",
      inputstate == 12 ~ states[9],
      inputstate == 13 ~ states[10],
      inputstate == 15 ~ states[11],
      inputstate == 16 ~ states[12],
      inputstate == 17 ~ states[13],
      inputstate == 18 ~ states[14],
      inputstate == 19 ~ states[15],
      inputstate == 20 ~ states[16],
      inputstate == 21 ~ states[17],
      inputstate == 22 ~ states[18],
      inputstate == 23 ~ states[19],
      inputstate == 24 ~ states[20],
      inputstate == 25 ~ states[21],
      inputstate == 26 ~ states[22],
      inputstate == 27 ~ states[23],
      inputstate == 28 ~ states[24],
      inputstate == 29 ~ states[25],
      inputstate == 30 ~ states[26],
      inputstate == 31 ~ states[27],
      inputstate == 32 ~ states[28],
      inputstate == 33 ~ states[29],
      inputstate == 34 ~ states[30],
      inputstate == 35 ~ states[31],
      inputstate == 36 ~ states[32],
      inputstate == 37 ~ states[33],
      inputstate == 38 ~ states[34],
      inputstate == 39 ~ states[35],
      inputstate == 40 ~ states[36],

```

```

inputstate == 41 ~ states[37],
inputstate == 42 ~ states[38],
inputstate == 44 ~ states[39],
inputstate == 45 ~ states[40],
inputstate == 46 ~ states[41],
inputstate == 47 ~ states[42],
inputstate == 48 ~ states[43],
inputstate == 49 ~ states[44],
inputstate == 50 ~ states[45],
inputstate == 51 ~ states[46],
inputstate == 53 ~ states[47],
inputstate == 54 ~ states[48],
inputstate == 55 ~ states[49],
inputstate == 56 ~ states[50]
)
)

table(full_drops$inputstate)

```

```
## < table of extent 0 >
```

```
#region
```

```
full_drops <- full_drops %>%
  mutate(
    region = case_when(
      region == 1 ~ "Northeast",
      region == 2 ~ "Midwest",
      region == 3 ~ "South",
      region == 4 ~ "West"
    )
  )

```

```
#marstat
```

```
full_drops <- full_drops %>%
  mutate(
    marstat = case_when(
      marstat == 1 ~ "Married" ,
      marstat == 2 ~ "Separated",
      marstat == 3 ~ "Divorced",
      marstat == 4 ~ "Widowed",
      marstat == 5 ~ "Never married",
      marstat == 6 ~ "Domestic / civil partnership",
      marstat == 8 ~ "skipped"
    )
  )

```

```
#child18
```

```
full_drops <- full_drops %>%
  mutate(
    child18 = case_when(
      child18 == 1 ~ "Yes" ,
      child18 == 2 ~ "No",
      child18 == 8 ~ "skipped"
    )
  )

```

```

)

#employ
full_drops <- full_drops %>%
  mutate(
    employ = case_when(
      employ == 1 ~ "Full-time" ,
      employ == 2 ~ "Part-time",
      employ == 3 ~ "Temporarily laid off",
      employ == 4 ~ "Unemployed",
      employ == 5 ~ "Retired",
      employ == 6 ~ "Permanently disabled",
      employ == 7 ~ "Homemaker",
      employ == 8 ~ "Student",
      employ == 9 ~ "Other",
      employ == 98 ~ "skipped"
    )
  )

#income
full_drops <- full_drops %>%
  mutate(
    faminc_new = case_when(
      faminc_new == 1 ~ "Less than $10,000",
      faminc_new == 2 ~ "$10,000 - $19,000",
      faminc_new == 3 ~ "$20,000 - $29,999",
      faminc_new == 4 ~ "$30,000 - $39,999",
      faminc_new == 5 ~ "$40,000 - $49,999",
      faminc_new == 6 ~ "$50,000 - $59,999",
      faminc_new == 7 ~ "$60,000 - $69,999",
      faminc_new == 8 ~ "$70,000 - $79,999",
      faminc_new == 9 ~ "$80,000 - $99,999",
      faminc_new == 10 ~ "$100,000 - $119,999",
      faminc_new == 11 ~ "$120,000 - $149,999",
      faminc_new == 12 ~ "$150,000 - $199,999",
      faminc_new == 13 ~ "$200,000 - $249,999",
      faminc_new == 14 ~ "$250,000 - $349,999",
      faminc_new == 15 ~ "$350,000 - $499,999",
      faminc_new == 16 ~ "$500,000 or more",
      faminc_new == 97 ~ "Prefer not to say",
      faminc_new == 998 ~ "skipped"
    )
  )

#voter registration
full_drops <- full_drops %>%
  mutate(
    votereg = case_when(
      votereg == 1 ~ "Yes",
      votereg == 2 ~ "No",
      votereg == 3 ~ "Don't know",
      votereg == 8 ~ "skipped",
    )
  )

```

```

)
)

#turnout20post
full_drops <- full_drops %>%
  mutate(
    turnout20post = case_when(
      turnout20post == 1 ~ "Yes",
      turnout20post == 2 ~ "No",
      turnout20post == 8 ~ "skipped"
    )
  )

#presidential vote 2020
full_drops <- full_drops %>%
  mutate(
    presvote20post = case_when(
      presvote20post == 1 ~ "Joe Biden",
      presvote20post == 2 ~ "Donald Trump",
      presvote20post == 3 ~ "Jo Jorgensen",
      presvote20post == 4 ~ "Howie Hawkins",
      presvote20post == 5 ~ "Other",
      presvote20post == 6 ~ "Did not vote for President",
      presvote20post == 8 ~ "skipped"
    )
  )

#ideology
full_drops <- full_drops %>%
  mutate(
    ideo5 = case_when(
      ideo5 == 1 ~ "Very liberal",
      ideo5 == 2 ~ "Liberal",
      ideo5 == 3 ~ "Moderate",
      ideo5 == 4 ~ "Conservative",
      ideo5 == 5 ~ "Very conservative"
    )
  )

#news interest
full_drops <- full_drops %>%
  mutate(
    newsint = case_when(
      newsint == 1 ~ "Most of the time",
      newsint == 2 ~ "Some of the time",
      newsint == 3 ~ "Only now and then",
      newsint == 4 ~ "Hardly at all",
      newsint == 7 ~ "Don't know",
      newsint == 98 ~ "skipped"
    )
  )

#presidential vote 2016

```

```

full_drops <- full_drops %>%
  mutate(
    presvote16post = case_when(
      presvote16post == 1 ~ "Hillary Clinton",
      presvote16post == 2 ~ "Donald Trump",
      presvote16post == 3 ~ "Gary Johnson",
      presvote16post == 4 ~ "Jill Stein",
      presvote16post == 5 ~ "Evan McMullin",
      presvote16post == 6 ~ "Other",
      presvote16post == 7 ~ "Did not vote for President",
      presvote16post == 98 ~ "skipped"
    )
  )

```

#born again

```

full_drops <- full_drops %>%
  mutate(
    pew_bornagain = case_when(
      pew_bornagain == 1 ~ "Yes",
      pew_bornagain == 2 ~ "No",
      pew_bornagain == 8 ~ "skipped",
    )
  )

```

#importance of religion

```

full_drops <- full_drops %>%
  mutate(
    pew_religimp = case_when(
      pew_religimp == 1 ~ "Very important",
      pew_religimp == 2 ~ "Somewhat important",
      pew_religimp == 3 ~ "Not too important",
      pew_religimp == 4 ~ "Not at all important",
      pew_religimp == 8 ~ "skipped"
    )
  )

```

#pew prayer

```

full_drops <- full_drops %>%
  mutate(
    pew_prayer = case_when(
      pew_prayer == 1 ~ "Several times a day",
      pew_prayer == 2 ~ "Once a day",
      pew_prayer == 3 ~ "A few times a week",
      pew_prayer == 4 ~ "Once a week",
      pew_prayer == 5 ~ "A few times a month",
      pew_prayer == 6 ~ "Seldom",
      pew_prayer == 7 ~ "Never",
      pew_prayer == 8 ~ "Don't know",
      pew_prayer == 98 ~ "skipped"
    )
  )

```

```

#religion
full_drops <- full_drops %>%
  mutate(
    religpew = case_when(
      religpew == 1 ~ "Protestant",
      religpew == 2 ~ "Roman Catholic",
      religpew == 3 ~ "Mormon",
      religpew == 4 ~ "Eastern or Greek Orthodox",
      religpew == 5 ~ "Jewish",
      religpew == 6 ~ "Muslim",
      religpew == 7 ~ "Buddhist",
      religpew == 8 ~ "Hindu",
      religpew == 9 ~ "Atheist",
      religpew == 10 ~ "Agnostic",
      religpew == 11 ~ "Nothing in particular",
      religpew == 12 ~ "Something else",
      religpew == 98 ~ "skipped"
    )
  )

#consent
full_drops <- full_drops %>%
  mutate(
    consent = case_when(
      consent == 1 ~ "Yes",
      consent == 2 ~ "No"
    )
  )

#consent 2
full_drops <- full_drops %>%
  mutate(
    consent2 = case_when(
      consent2 == 1 ~ "Proceed",
      consent2 == 2 ~ "Do not want to participate"
    )
  )

#church attendance
full_drops <- full_drops %>%
  mutate(
    pew_churatd = case_when(
      pew_churatd == 1 ~ "More than once a week",
      pew_churatd == 2 ~ "Once a week",
      pew_churatd == 3 ~ "Once or twice a month",
      pew_churatd == 4 ~ "A few times a year",
      pew_churatd == 5 ~ "Seldom",
      pew_churatd == 6 ~ "Never",
      pew_churatd == 7 ~ "Don't know",
      pew_churatd == 98 ~ "skipped"
    )
  )

```

```

####Add drop report to clean dataset ####

#create variable merge list
final_vars <- colnames(final_df)
drop_vars <- colnames(all_drops)
shared_vars <- intersect(final_vars, drop_vars)

#turn variables to character
all_drops <- all_drops %>%
  mutate_at(c(shared_vars[6:208]), as.character) #208 to return

final_df <- final_df %>%
  mutate(
    starttime = as.character(starttime),
    endtime = as.character(endtime)
  )

#final_df <- final_df %>%
# mutate_at(c(shared_vars[6:208, 250]), as.character)

#merge
final_drops <- full_join(final_df, all_drops, by=c(shared_vars))

#remove duplicate case ids
final_drops <- final_drops %>%
  distinct(caseid, .keep_all = T)

table(is.na(final_drops$video_treatment))

```

```

##
## FALSE
## 2573

```

```
table(is.na(as.numeric(final_drops$Q2_w2)))
```

```

## Warning in table(is.na(as.numeric(final_drops$Q2_w2))): NAs introduced by
## coercion

```

```

##
## FALSE TRUE
## 2032 541

```

```

#keep only those assigned to treatment
final_drops <- final_drops %>%
  filter(!is.na(video_treatment))

```

Sample Weights

```

#Find out number of participants with weights for wave 3 but NOT wave 2

#create variable
final_drops <- final_drops %>%
  mutate(
    w3_only = if_else(weight_w2 == "No Data" & weight_w3 != "No Data", 1,0)

```

```

)

#check
table(final_drops$w3_only)

##
##    0    1
## 2059 174

#turn weights back to numeric
final_drops$weight <- as.numeric(final_drops$weight)

## Warning: NAs introduced by coercion
final_drops$weight_w2 <- as.numeric(final_drops$weight_w2)

## Warning: NAs introduced by coercion
final_drops$weight_w3 <- as.numeric(final_drops$weight_w3)

## Warning: NAs introduced by coercion

```

Treatment assignment indicators

```

#treatment assignment variable DROPS
final_drops <- final_drops %>%
  mutate(treat_all =
    as.factor(case_when(
      video_treatment == "Empty Control" ~ 0,
      video_treatment == "Placebo Control" ~ 1,
      video_treatment == "Treatment Short PMC" ~ 2,
      video_treatment == "Treatment Short VC" ~ 3,
      video_treatment == "Treatment Long" ~ 4
    ))
  )

#check
table(final_drops$treat_all)

##
##    0    1    2    3    4
## 506 514 514 515 524

table(final_drops$video_treatment)

##
##      Empty Control      Placebo Control      Treatment Long Treatment Short PMC
##                506                514                524                514
## Treatment Short VC
##                515

#####Long#####

#create treatment long DROPS
final_drops <- final_drops %>%

```

```

mutate(treat_long =
  as.factor(case_when(
    video_treatment == "Empty Control" ~ 0,
    video_treatment == "Placebo Control" ~ 1,
    video_treatment == "Treatment Long" ~ 2
  )
))

#check
table(final_drops$treat_long)

##
## 0 1 2
## 506 514 524

#treat long collapse 1 DROPS (Long video vs Placebo+Control)
final_drops <- final_drops %>%
  mutate(treat_long_collapse1 =
    case_when(
      video_treatment == "Empty Control" ~ 0,
      video_treatment == "Placebo Control" ~ 0,
      video_treatment == "Treatment Long" ~ 1
    )
  )

#check
table(final_drops$treat_long_collapse1)

##
## 0 1
## 1020 524

#treat long collapse 2 DROPS (long vs. placebo)
final_drops <- final_drops %>%
  mutate(treat_long_collapse2 =
    case_when(
      video_treatment == "Placebo Control" ~ 0,
      video_treatment == "Treatment Long" ~ 1
    )
  )

#check
table(final_drops$treat_long_collapse2)

##
## 0 1
## 514 524

#####Short#####

#Treat short variable DROPS (short pmc vs. short vc vs. empty control)
final_drops <- final_drops %>%
  mutate(treat_short =
    as.factor(case_when(
      video_treatment == "Empty Control" ~ 0,
      video_treatment == "Treatment Short PMC" ~ 1,

```

```

        video_treatment == "Treatment Short VC" ~ 2,
    )
))

#check
table(final_drops$treat_short)

##
## 0 1 2
## 506 514 515

#Treat short collapse DROPS (short videos vs. control)
final_drops <- final_drops %>%
  mutate(treat_short_collapse =
    case_when(
      video_treatment == "Empty Control" ~ 0,
      video_treatment == "Treatment Short PMC" ~ 1,
      video_treatment == "Treatment Short VC" ~ 1,
    )
  )

#check
table(final_drops$treat_short_collapse)

##
## 0 1
## 506 1029

#pmc vs. vc
final_drops <- final_drops %>% #create dummy
  mutate(pmc_vs_vc =
    case_when(
      video_treatment == "Treatment Short VC" ~ 0,
      video_treatment == "Treatment Short PMC" ~ 1
    )
  )

#####LongShort#####

#Treat long short DROPS (long vs. short pmc vs. short vc vs. control)
final_drops <- final_drops %>%
  mutate(treat_long_short =
    as.factor(case_when(
      video_treatment == "Empty Control" ~ 0,
      video_treatment == "Treatment Short PMC" ~ 1,
      video_treatment == "Treatment Short VC" ~ 2,
      video_treatment == "Treatment Long" ~ 3
    )
  )
))

#check
table(final_drops$treat_long_short)

##
## 0 1 2 3

```

```

## 506 514 515 524
#Treat long short collapse DROPS (long vs. short pmc + vc vs. control)
final_drops <- final_drops %>%
  mutate(treat_long_short_collapse =
    as.factor(case_when(
      video_treatment == "Empty Control" ~ 0,
      video_treatment == "Treatment Short PMC" ~ 1,
      video_treatment == "Treatment Short VC" ~ 1,
      video_treatment == "Treatment Long" ~ 2
    )
  ))

#check
table(final_drops$treat_long_short_collapse)

```

```

##
## 0 1 2
## 506 1029 524

```

```

#####ShortDummy#####

#a dummy for both short videos vs. control DROPS
final_drops <- final_drops %>%
  mutate(
    short_pmc =
      case_when(
        video_treatment == "Treatment Short PMC" ~ 1,
        video_treatment == "Empty Control" ~ 0
      ),
    short_vc =
      case_when(
        video_treatment == "Treatment Short VC" ~ 1,
        video_treatment == "Empty Control" ~ 0
      )
  )

table(is.na(final_drops$short_vc))

```

```

##
## FALSE TRUE
## 1021 1552

```

```

#Drops
#create dummies for short videos
#final_drops <- final_drops %>%
# mutate(
#   short_vc = if_else(video_treatment ==
#     "Treatment Short VC", 1, 0),
#   short_pmc = if_else(video_treatment ==
#     "Treatment Short PMC", 1, 0),
#   full_video = if_else(video_treatment ==
#     "Treatment Long", 1, 0),
#   empty = if_else(video_treatment ==
#     "Empty Control", 1, 0)
# )

```

```

# )

####Pooled####

#short vs. pooled controls
final_drops <- final_drops %>%
  mutate(
    short_vs_pooled =
      as.factor(case_when(
        video_treatment == "Placebo Control" ~ 0,
        video_treatment == "Empty Control" ~ 0,
        video_treatment == "Treatment Short PMC" ~ 1,
        video_treatment == "Treatment Short VC" ~ 2
      )
    )
))

#all treatment vs. all control

#drops
final_drops <- final_drops %>%
  mutate(
    treat_all_collapse =
      case_when(
        video_treatment == "Treatment Long" ~ 1,
        video_treatment == "Treatment Short PMC" ~ 1,
        video_treatment == "Treatment Short VC" ~ 1,
        video_treatment == "Empty Control" ~ 0,
        video_treatment == "Placebo Control" ~ 0
      )
    )
)

#both short videos vs. long video
final_drops <- final_drops %>%
  mutate(
    treat_shortlong_collapse =
      case_when(
        video_treatment == "Treatment Long" ~ 1,
        video_treatment == "Treatment Short PMC" ~ 0,
        video_treatment == "Treatment Short VC" ~ 0
      )
    )
)

#long vs. pmc / vc
final_drops <- final_drops %>%
  mutate(
    treat_pmclong =
      case_when(
        video_treatment == "Treatment Long" ~ 1,
        video_treatment == "Treatment Short PMC" ~ 0
      )
    ),
    treat_vclong = case_when(
      video_treatment == "Treatment Long" ~ 1,

```

```

    video_treatment == "Treatment Short VC" ~ 0
  )
)

```

Nudges treatment assignments

```

#create nudge dummies
final_drops <- final_drops %>%
  mutate(
    soc_proof = as.numeric(grepl("social proofing", final_drops$video_disp)),
    efficacy = as.numeric(grepl("efficacy", final_drops$video_disp)),
    meta = as.numeric(grepl("meta", final_drops$video_disp)),
  )

#create categorical variable (social proofing is the reference category, efficacy is 1, meta is 2)
final_drops <- final_drops %>%
  mutate(nudges=
    as.factor(case_when(
      video_treatment == "Placebo Control" ~ 0,
      soc_proof == 1 & video_treatment == "Treatment Long" ~ 1,
      efficacy == 1 & video_treatment == "Treatment Long" ~ 2,
      meta == 1 & video_treatment == "Treatment Long" ~ 3
    )
  ))

```

Party ID indicators

```

# Party ID: Republican vs. Democrat DROPS
final_drops <- final_drops %>%
  mutate(partyID =
    case_when(
      Q5 == "Republican" ~ 1,
      Q5 == "1" ~ 1,
      Q6 == "Republican" ~ 1,
      Q6 == "1" ~ 1,
      Q5 == "Democrat" ~ 0,
      Q5 == "2" ~ 0,
      Q6 == "Democrat" ~ 0,
      Q6 == "2" ~ 0
    )
  )

#check

|                      |                        |
|----------------------|------------------------|
| final_drops\$Q5      | #826 Ds, 512 Rs (diff) |
| final_drops\$Q6      | #488 Ds, 407 Rs (diff) |
| final_drops\$partyID | #1514 Ds, 1059 Rs      |



#####Independents#####

#Party ID with Independents (others included with independents) DROPS
final_drops <- final_drops %>%
  mutate(partyID_ind =
    as.factor(case_when(

```

```

Q5 == "Republican" ~ 1,
Q5 == "1" ~ 1, #Republican
Q5 == "Democrat" ~ 0,
Q5 == "2" ~ 0, #Democrat
Q5 == "Independent" ~ 2,
Q5 == "3" ~ 2, #Ind
Q5 == "Other" ~ 2,
Q5 == "4" ~ 2 #Other
)
))

#check
#table(final_drops$partyID_ind)
#955+588+1030

#Party ID with Ind and Other disaggregated DROPS
final_drops <- final_drops %>%
  mutate(partyID_ind_other =
    as.factor(case_when(
      Q5 == "Republican" ~ 1,
      Q5 == "1" ~ 1, #Republican
      Q5 == "Democrat" ~ 0,
      Q5 == "2" ~ 0, #Democrat,
      Q5 == "Independent" ~2,
      Q5 == "3" ~ 2, #Ind,
      Q5 == "Other" ~ 3,
      Q5 == "4" ~ 3 #Other
    )
  )
))

#check
#table(final_drops$partyID_ind_other)
#955+588+742+288

```

Affective polarization index

```

#Feeling Thermometer

#Inparty DROPS
final_drops <- final_drops %>%
  mutate(therm_inparty =
    case_when(
      partyID == 0 ~ as.numeric(Q1_w2), #Dem Warmth toward Dem
      partyID == 1 ~ as.numeric(Q2_w2), #Rep Warmth towards Rep
    ),
    therm_inparty = replace(therm_inparty, therm_inparty >100, NA) #turn impossible values into NA
  )

```

```

## Warning: There were 2 warnings in `mutate()`.
## The first warning was:
## i In argument: `therm_inparty = case_when(...)`
## Caused by warning:

```

```
## ! NAs introduced by coercion
## i Run `dplyr::last_dplyr_warnings()` to see the 1 remaining warning.
```

```
#check
summary(final_drops$therm_inparty)
```

```
##   Min. 1st Qu.  Median    Mean 3rd Qu.    Max.   NA's
##   0.00  54.00   75.00   69.78  89.00  100.00   571
```

```
#Outparty DROPS
```

```
final_drops <- final_drops %>%
```

```
  mutate(therm_outparty =
```

```
    case_when(
```

```
      partyID == 1 ~ as.numeric(Q1_w2), #Rep Warmth towards Dem
```

```
      partyID == 0 ~ as.numeric(Q2_w2), #Dem Warmth towards Rep
```

```
    ),
```

```
    therm_outparty = replace(therm_outparty, therm_outparty >100, NA) #turn impossible values into
```

```
  )
```

```
## Warning: There were 2 warnings in `mutate()`.
```

```
## The first warning was:
```

```
## i In argument: `therm_outparty = case_when(...)`.
```

```
## Caused by warning:
```

```
## ! NAs introduced by coercion
```

```
## i Run `dplyr::last_dplyr_warnings()` to see the 1 remaining warning.
```

```
#check
summary(final_drops$therm_outparty)
```

```
##   Min. 1st Qu.  Median    Mean 3rd Qu.    Max.   NA's
##   0.00   4.00   20.00   25.89  42.00  100.00   584
```

```
#Feeling Thermometer Difference DROPS
```

```
final_drops <- final_drops %>%
```

```
  mutate(
```

```
    therm_diff = therm_inparty - therm_outparty
```

```
  )
```

```
#check
```

```
summary(final_drops$therm_diff)
```

```
##   Min. 1st Qu.  Median    Mean 3rd Qu.    Max.   NA's
##  -88.00  16.00   48.00   44.01  72.00  100.00   597
```

```
#Wave 3 Inparty DROPS
```

```
final_drops <- final_drops %>%
```

```
  mutate(therm_inparty_w3 =
```

```
    case_when(
```

```
      partyID == 0 ~ as.numeric(Q1_w3), #Dem Warmth toward Dem
```

```
      partyID == 1 ~ as.numeric(Q2_w3), #Rep Warmth towards Rep
```

```
    ),
```

```
    therm_inparty_w3 = replace(therm_inparty_w3, therm_inparty_w3 >100, NA) #turn impossible value
```

```
  )
```

```
## Warning: There were 2 warnings in `mutate()`.
```

```
## The first warning was:
```

```
## i In argument: `therm_inparty_w3 = case_when(...)`.
```

```
## Caused by warning:
```

```
## ! NAs introduced by coercion
## i Run `dplyr::last_dplyr_warnings()` to see the 1 remaining warning.
```

```
#Outparty DROPS
```

```
final_drops <- final_drops %>%
  mutate(therm_outparty_w3 =
    case_when(
      partyID == 1 ~ as.numeric(Q1_w3), #Rep Warmth towards Dem
      partyID == 0 ~ as.numeric(Q2_w3), #Dem Warmth towards Rep
    ),
    therm_outparty_w3 = replace(therm_outparty_w3, therm_outparty_w3 >100, NA) #turn impossible va
  )
```

```
## Warning: There were 2 warnings in `mutate()`.
## The first warning was:
## i In argument: `therm_outparty_w3 = case_when(...)`.
```

```
#Feeling Thermometer Difference
```

```
final_drops <- final_drops %>%
  mutate(
    therm_diff_w3 = therm_inparty_w3 - therm_outparty_w3
  )
```

```
#Outparty threat perception DROPS
```

```
final_drops <- final_drops %>%
  mutate(threat_outparty =
    case_when(
      Q6_w2 == "OUTPARTY are NOT a serious threat to the United States and its people" ~ 0,
      Q6_w2 == "OUTPARTY are a serious threat to the United States and its people" ~ 1,
      Q6_w2 == "2" ~ 0,
      Q6_w2 == "1" ~ 1
    )
  )
```

```
#check
```

```
table(is.na(final_drops$threat_outparty))
```

```
##
## FALSE TRUE
## 2103 470
```

```
#Threat wave 3 DROPS
```

```
final_drops <- final_drops %>%
  mutate(threat_outparty_w3 =
    case_when(
      Q6_w3 == "OUTPARTY are NOT a serious threat to the United States and its people" ~ 0,
      Q6_w3 == "OUTPARTY are a serious threat to the United States and its people" ~ 1,
      Q6_w3 == "2" ~ 0,
      Q6_w3 == "1" ~ 1
    )
  )
```

```
#check
```

```
table(is.na(final_drops$threat_outparty_w3))
```

```

##
## FALSE TRUE
## 1608 965
#####Friends#####

#Discomfort with outparty friends DROPS
final_drops <- final_drops %>%
  mutate(discomfort_outparty_friends =
    case_when(
      Q3_w2 == "Very comfortable" ~ 0,
      Q3_w2 == "Somewhat comfortable" ~ 1,
      Q3_w2 == "Not comfortable" ~ 2,
      Q3_w2 == "1" ~ 0,
      Q3_w2 == "2" ~ 1,
      Q3_w2 == "3" ~ 2
    )
  )

table(is.na(final_drops$discomfort_outparty_friends))

```

```

##
## FALSE TRUE
## 2104 469
#####Neighbors#####

#Discomfort with outparty neighbors DROPS
final_drops <- final_drops %>%
  mutate(discomfort_outparty_neighbors =
    case_when(
      Q4_w2 == "Very comfortable" ~ 0,
      Q4_w2 == "Somewhat comfortable" ~ 1,
      Q4_w2 == "Not comfortable" ~ 2,
      Q4_w2 == "1" ~ 0,
      Q4_w2 == "2" ~ 1,
      Q4_w2 == "3" ~ 2
    )
  )

table(is.na(final_drops$discomfort_outparty_friends))

```

```

##
## FALSE TRUE
## 2104 469
#####Marriage#####

#Discomfort with outparty marriage DROPS
final_drops <- final_drops %>%
  mutate(discomfort_outparty_marriage =
    case_when(
      Q5_w2 == "Very comfortable" ~ 0,
      Q5_w2 == "Somewhat comfortable" ~ 1,

```

```

    Q5_w2 == "Not comfortable" ~ 2,
    Q5_w2 == "1" ~ 0,
    Q5_w2 == "2" ~ 1,
    Q5_w2 == "3" ~ 2
  )
)

table(is.na(final_drops$discomfort_outparty_marriage))

```

```

##
## FALSE TRUE
## 2104 469

```

```

#Discomfort with outparty friends wave 3 DROPS
final_drops <- final_drops %>%
  mutate(discomfort_outparty_friends_w3 =
    case_when(
      Q3_w3 == "Very comfortable" ~ 0,
      Q3_w3 == "Somewhat comfortable" ~ 1,
      Q3_w3 == "Not comfortable" ~ 2,
      Q3_w3 == "1" ~ 0,
      Q3_w3 == "2" ~ 1,
      Q3_w3 == "3" ~ 2
    )
  )

table(is.na(final_drops$discomfort_outparty_friends_w3))

```

```

##
## FALSE TRUE
## 1612 961

```

```

#Discomfort with outparty neighbors DROPS
final_drops <- final_drops %>%
  mutate(discomfort_outparty_neighbors_w3 =
    case_when(
      Q4_w3 == "Very comfortable" ~ 0,
      Q4_w3 == "Somewhat comfortable" ~ 1,
      Q4_w3 == "Not comfortable" ~ 2,
      Q4_w3 == "1" ~ 0,
      Q4_w3 == "2" ~ 1,
      Q4_w3 == "3" ~ 2
    )
  )

#check
table(is.na(final_drops$discomfort_outparty_neighbors_w3))

```

```

##
## FALSE TRUE
## 1612 961

```

```

#Discomfort with outparty marriage DROPS
final_drops <- final_drops %>%
  mutate(discomfort_outparty_marriage_w3 =
    case_when(

```

```

    Q5_w3 == "Very comfortable" ~ 0,
    Q5_w3 == "Somewhat comfortable" ~ 1,
    Q5_w3 == "Not comfortable" ~ 2,
    Q5_w3 == "1" ~ 0,
    Q5_w3 == "2" ~ 1,
    Q5_w3 == "3" ~ 2
  )
)

#check
table(is.na(final_drops$discomfort_outparty_marriage_w3))

```

```

##
## FALSE TRUE
## 1612 961

```

```

table(final_drops$Q7_w2)

##
##
## 1
## 111
## 2
## 56
## 9
## 107
## I am a $IN_party because I am against what the $OUT_party$s represent 304
## I am a $IN_party because of what the $IN_party$s represent 803
## No Data 382
## not asked 744

```

```

#Negative partisanship DROPS
final_drops <- final_drops %>%
  mutate(neg_partisan =
    case_when(
      Q7_w2 == "I am a $IN_party because of what the $IN_party$s represent" ~ 0,
      Q7_lean_w2 == "I lean or am a $IN_party because of what the $IN_party$s represent" ~ 0,
      Q7_w2 == "1" ~ 0,
      Q7_lean_w2 == "1" ~ 0,
      Q7_w2 == "I am a $IN_party because I am against what the $OUT_party$s represent" ~ 1,
      Q7_lean_w2 == "I lean or am a $IN_party because I am against what the $OUT_party$s represent" ~ 1,
      Q7_w2 == "2" ~ 1,
      Q7_lean_w2 == "2" ~ 1,
    )
  )

#check
table(is.na(final_drops$neg_partisan))

```

```

##
## FALSE TRUE
## 2098 475

```

```

#Negative partisanship Wave 3 DROPS
final_drops <- final_drops %>%
  mutate(neg_partisan_w3 =
    case_when(
      Q7_w3 == "I am a $IN_party because of what the $IN_party$s represent" ~ 0,
      Q7_lean_w3 == "I lean or am a $IN_party because of what the $IN_party$s represent" ~ 0,
      Q7_w3 == "1" ~ 0,
      Q7_lean_w3 == "1" ~ 0,
      Q7_w3 == "I am a $IN_party because I am against what the $OUT_party$s represent" ~ 1,
      Q7_lean_w3 == "I lean or am a $IN_party because I am against what the $OUT_party$s represent" ~ 1,
      Q7_w3 == "2" ~ 1,
      Q7_lean_w3 == "2" ~ 1
    )
  )

#check
table(is.na(final_drops$neg_partisan_w3))

```

```

##
## FALSE TRUE
## 1605 968

```

#####INPARTY#####

```

#In-party trust DROPS
final_drops <- final_drops %>%
  mutate(trust_inparty =
    case_when(
      Q25_w2 == "Almost never" ~ 0,
      Q25_w2 == "1" ~ 0,
      Q25_w2 == "Once in a while" ~ 1,
      Q25_w2 == "2" ~ 1,
      Q25_w2 == "About half the time" ~ 2,
      Q25_w2 == "3" ~ 2,
      Q25_w2 == "Most of the time" ~ 3,
      Q25_w2 == "4" ~3,
      Q25_w2 == "Almost always" ~ 4,
      Q25_w2 == "5" ~ 4
    )
  )

table(is.na(final_drops$trust_inparty))

```

```

##
## FALSE TRUE
## 2097 476

```

#####OUTPARTY#####

```

#Outparty trust DROPS
final_drops <- final_drops %>%
  mutate(trust_outparty =
    case_when(
      Q38_w2 == "Almost never" ~ 0,
      Q38_w2 == "1" ~ 0,

```

```

    Q38_w2 == "Once in a while" ~ 1,
    Q38_w2 == "2" ~ 1,
    Q38_w2 == "About half the time" ~ 2,
    Q38_w2 == "3" ~ 2,
    Q38_w2 == "Most of the time" ~ 3,
    Q38_w2 == "4" ~3,
    Q38_w2 == "Almost always" ~ 4,
    Q38_w2 == "5" ~ 4
  )
)

#####DIFFERENCE#####

#Difference in trust DROPS
final_drops <- final_drops %>%
  mutate(
    trust_diff = trust_inparty - trust_outparty
  )

summary(final_drops$trust_inparty)

##   Min. 1st Qu.  Median    Mean 3rd Qu.    Max.   NA's
##   0.00   2.00   3.00   2.62   3.00   4.00   476

summary(final_drops$trust_outparty)

##   Min. 1st Qu.  Median    Mean 3rd Qu.    Max.   NA's
## 0.0000 0.0000 1.0000 0.9919 2.0000 4.0000   477

#In-party trust DROPS
final_drops <- final_drops %>%
  mutate(trust_inparty_w3 =
    case_when(
      Q25_w3 == "Almost never" ~ 0,
      Q25_w3 == "1" ~ 0,
      Q25_w3 == "Once in a while" ~ 1,
      Q25_w3 == "2" ~ 1,
      Q25_w3 == "About half the time" ~ 2,
      Q25_w3 == "3" ~ 2,
      Q25_w3 == "Most of the time" ~ 3,
      Q25_w3 == "4" ~3,
      Q25_w3 == "Almost always" ~ 4,
      Q25_w3 == "5" ~ 4
    )
  )

#check
table(is.na(final_drops$trust_inparty_w3))

##
## FALSE  TRUE
## 1613   960

#Outparty trust DROPS
final_drops <- final_drops %>%

```

```

mutate(trust_outparty_w3 =
  case_when(
    Q38_w3 == "Almost never" ~ 0,
    Q38_w3 == "1" ~ 0,
    Q38_w3 == "Once in a while" ~ 1,
    Q38_w3 == "2" ~ 1,
    Q38_w3 == "About half the time" ~ 2,
    Q38_w3 == "3" ~ 2,
    Q38_w3 == "Most of the time" ~ 3,
    Q38_w3 == "4" ~ 3,
    Q38_w3 == "Almost always" ~ 4,
    Q38_w3 == "5" ~ 4
  )
)

#Difference in trust DROPS
final_drops <- final_drops %>%
  mutate(
    trust_diff_w3 = trust_inparty_w3 - trust_outparty_w3
  )

#check
table(is.na(final_drops$trust_diff_w3))

```

```

##
## FALSE TRUE
## 1611 962

```

Index Construction

```

#construct index: scale relevant variables first
final_drops <- final_drops %>%
  mutate(therm_diff_scale = scale(therm_diff),
    threat_outparty_scale = scale(threat_outparty),
    discomfort_outparty_friends_scale = scale(discomfort_outparty_friends),
    discomfort_outparty_neighbors_scale = scale(discomfort_outparty_neighbors),
    discomfort_outparty_marriage_scale = scale(discomfort_outparty_marriage),
    neg_partisan_scale = scale(neg_partisan),
    trust_diff_scale = scale(trust_diff)
  )

#create new keys list
keys <- list(final_drops=cs(therm_diff_scale, threat_outparty_scale, discomfort_outparty_friends_scale,
  discomfort_outparty_neighbors_scale, discomfort_outparty_marriage_scale, neg_partisan_scale, trust_diff_scale))

#use alpha function to calculate scores
tmp <- alpha(final_drops, keys, check.keys = T, use ="pairwise")

## Number of categories should be increased in order to count frequencies.

#create new variable
final_drops <- final_drops %>%
  mutate(
    aff_pol_idx = tmp$scores
  )

```

```

)

#check
summary(final_drops$aff_pol_idx)

##   Min. 1st Qu.  Median    Mean 3rd Qu.    Max.   NA's
## -2.5816 -0.4557 -0.0184 -0.0016  0.4821  1.3973   468

table(is.na(final_drops$aff_pol_idx))

##
## FALSE  TRUE
##  2105   468

#remove tmp/keys
remove(tmp)
remove(keys)

#outparty scaled variables
final_drops <- final_drops %>%
  mutate(therm_outparty_scale = scale(therm_outparty)*-1, #reverse sign
         trust_outparty_scale = scale(trust_outparty)*-1 #reverse sign
  )

#create keys list
keys_outparty <- list(final_drops=cs(therm_outparty_scale, threat_outparty_scale, discomfort_outparty_f

#use alpha function to calculate scores
tmp_out <- alpha(final_drops, keys_outparty, check.keys = T, use ="pairwise")

## Number of categories should be increased in order to count frequencies.

#create new variable
final_drops <- final_drops %>%
  mutate(
    aff_pol_idx_outparty = tmp_out$scores
  )

#check (looks good)
summary(final_drops$aff_pol_idx_outparty)

##   Min. 1st Qu.  Median    Mean 3rd Qu.    Max.   NA's
## -2.9966 -0.4656  0.0087 -0.0015  0.5031  1.2586   468

#remove tmp/keys
remove(tmp_out)
remove(keys_outparty)

#create relevant keys
keys_noneg <- list(final_drops=cs(therm_diff_scale, threat_outparty_scale, discomfort_outparty_friends

#use alpha function to calculate scores
tmp_noneg <- alpha(final_drops, keys_noneg, check.keys = T, use ="pairwise")

## Number of categories should be increased in order to count frequencies.

#create new variable
final_drops <- final_drops %>%

```

```

mutate(
  aff_pol_idx_noneg = tmp_noneg$scores
)

#check
summary(final_drops$aff_pol_idx_noneg)

##   Min. 1st Qu.  Median    Mean 3rd Qu.    Max.   NA's
## -2.5816 -0.5143 -0.0182 -0.0017  0.5368  1.4210   468

#remove tmp/keys
remove(tmp_noneg)
remove(keys_noneg)

#Drops
#create new scaled variables
final_drops <- final_drops %>%
  mutate(therm_diff_w3_scale = scale(therm_diff_w3),
         threat_outparty_w3_scale = scale(threat_outparty_w3),
         discomfort_outparty_friends_w3_scale = scale(discomfort_outparty_friends_w3),
         discomfort_outparty_neighbors_w3_scale = scale(discomfort_outparty_neighbors_w3),
         discomfort_outparty_marriage_w3_scale = scale(discomfort_outparty_marriage_w3),
         neg_partisan_w3_scale = scale(neg_partisan_w3)*-1, #reverse sign
         trust_diff_w3_scale = scale(trust_diff_w3),
         therm_outparty_w3_scale = scale(therm_outparty_w3)*-1, #reverse sign
         trust_outparty_w3_scale = scale(trust_outparty_w3)*-1 #reverse sign
  )

#create keys
keys_w3 <- list(final_drops=cs(therm_diff_w3_scale, threat_outparty_w3_scale, discomfort_outparty_friends_w3_scale,
                              trust_diff_w3_scale, therm_outparty_w3_scale, trust_outparty_w3_scale))

#use alpha function to calculate scores
tmp_w3 <- alpha(final_drops, keys_w3, check.keys = T, use = "pairwise")

## Number of categories should be increased in order to count frequencies.

#create new variable
final_drops <- final_drops %>%
  mutate(
    aff_pol_idx_w3 = tmp_w3$scores
  )

#check
summary(final_drops$aff_pol_idx_w3)

##   Min. 1st Qu.  Median    Mean 3rd Qu.    Max.   NA's
## -1.7220 -0.4776 -0.0296 -0.0014  0.4776  1.3291   961

#####OUTPARTY#####

#unreverse neg partisan
final_drops <- final_drops %>%
  mutate(
    neg_partisan_w3_scale = scale(neg_partisan_w3)
  )

```

```

#outparty keys
keys_w3_out <- list(final_drops=cs(therm_outparty_w3_scale, threat_outparty_w3_scale, discomfort_outpar

#use alpha function to calcualte scores
tmp_w3_out <- alpha(final_drops, keys_w3_out, check.keys = T, use ="pairwise")

## Number of categories should be increased in order to count frequencies.
tmp_w3_out$keys

##           therm_outparty_w3_scale           threat_outparty_w3_scale
##                1                      1
##  discomfort_outparty_friends_w3_scale discomfort_outparty_neighbors_w3_scale
##                1                      1
##  discomfort_outparty_marriage_w3_scale           neg_partisan_w3_scale
##                1                      1
##           trust_outparty_w3_scale
##                1

#create new variable
final_drops <- final_drops %>%
  mutate(
    aff_pol_idx_outparty_w3 = tmp_w3_out$scores
  )

#check
summary(final_drops$aff_pol_idx_w3)

##   Min. 1st Qu.  Median    Mean 3rd Qu.    Max.   NA's
## -1.7220 -0.4776 -0.0296 -0.0014  0.4776  1.3291   961

#####NO_NEG#####

#DROPS

#no neg partisanship keys
keys_w3_noneg <- list(final_drops=cs(therm_diff_w3_scale, threat_outparty_w3_scale, discomfort_outparty

#use alpha function to calcualte scores
tmp_w3_noneg <- alpha(final_drops, keys_w3_noneg, check.keys = T, use ="pairwise")

## Number of categories should be increased in order to count frequencies.
#create new variable
final_drops <- final_drops %>%
  mutate(
    aff_pol_idx_noneg_w3 = tmp_w3_noneg$scores
  )

#check
summary(final_drops$aff_pol_idx_noneg_w3)

##   Min. 1st Qu.  Median    Mean 3rd Qu.    Max.   NA's
## -2.1325 -0.5270 -0.0317 -0.0015  0.5356  1.4272   961

#remove vestiges
remove(keys_w3)

```

```

remove(keys_w3_noneg)
remove(keys_w3_out)
remove(tmp_w3)
remove(tmp_w3_out)
remove(tmp_w3_noneg)

```

Behavioral measures cleaning

```

#interest
final_drops <- final_drops %>%
  mutate(BA_newsletter =
    case_when(
      Q76_w2 == "No" ~ 0,
      Q76_w2 == "Yes" ~ 1,
      Q76_w2 == "2" ~ 0,
      Q76_w2 == "1" ~ 1
    )
  )

#check
table(is.na(final_drops$BA_newsletter))

```

```

##
## FALSE TRUE
## 2090 483

```

```

#actual clicks
final_drops <- final_drops %>%
  mutate(BA_newsletter_clicked =
    case_when(
      #Q76_w2 == "8" ~ NA_real_,
      #Q76_w2 == "not asked" ~ NA_real_,
      #Q76_w2 == "skipped" ~ NA_real_,
      Q87_links_clicked_w2 == "https://braverangels.org/subscribe/" ~ 1,
      Q87_links_clicked_w2 == "https://braverangels.org/subscribe/-https://braverangels.org/subsc:
      Q87_links_clicked_w2 == "https://braverangels.org/subscribe/-https://braverangels.org/subsc:
      Q87_links_clicked_w2 == "https://braverangels.org/subscribe/-https://braverangels.org/subsc:
      Q87_links_clicked_w2 == "https://braverangels.org/subscribe/-https://braverangels.org/subsc:
      Q87_links_clicked_w2 == "__NA__" ~ 0
    )
  )

#check
table(final_drops$BA_newsletter_clicked)

```

```

##
## 0 1
## 1660 167

```

```

#donations
final_drops <- final_drops %>%
  mutate(donate_allsides = case_when(
    Q78_w2 == "999" ~ NA_real_,

```

```

Q78_w2 == "not asked" ~NA_real_,
Q78_w2 == "No Data" ~NA_real_,
TRUE ~ as.numeric(Q78_w2)
),
  donate_lrc = case_when(
Q79_w2 == "999" ~ NA_real_,
Q79_w2 == "not asked" ~NA_real_,
Q79_w2 == "No Data" ~NA_real_,
TRUE ~ as.numeric(Q79_w2)
),
  donate_BA = case_when(
Q80_w2 == "999" ~ NA_real_,
Q80_w2 == "998" ~ NA_real_,
Q80_w2 == "not asked" ~NA_real_,
Q80_w2 == "No Data" ~NA_real_,
TRUE ~ as.numeric(Q80_w2)
))

## Warning: There were 3 warnings in `mutate()`.
## The first warning was:
## i In argument: `donate_allsides = case_when(...)` .
## Caused by warning:
## ! NAs introduced by coercion
## i Run `dplyr::last_dplyr_warnings()` to see the 2 remaining warnings.

#Q77
98+317 #415 say they want to donate

## [1] 415
174+1503 #1681 say they don't want

## [1] 1677
382 + 29 + 2 + 2 #415 were not asked or we have No Data or skipped

## [1] 415
# 66 pure NAs
176+382+1534

## [1] 2092
2573-2092

## [1] 481
#clean up allsides
final_drops <- final_drops %>%
  mutate(donate_allsides =
    case_when(
      Q77_w2 == "No" ~ 0,
      Q77_w2 == "2" ~ 0,
      donate_allsides >= 0 ~ as.numeric(donate_allsides)
    )
  )

```

```
#check (481 NAs)
summary(final_drops$donate_allsides)
```

```
##   Min. 1st Qu.  Median    Mean 3rd Qu.    Max.   NA's
##  0.000  0.000   0.000   5.555  0.000 100.000   481
```

```
#clean up LRC
final_drops <- final_drops %>%
  mutate(donate_lrc =
    case_when(
      Q77_w2 == "No" ~ 0,
      Q77_w2 == "2" ~ 0,
      donate_lrc >= 0 ~ as.numeric(donate_lrc)
    )
  )
```

```
#check (482 NAs)
summary(final_drops$donate_lrc)
```

```
##   Min. 1st Qu.  Median    Mean 3rd Qu.    Max.   NA's
##  0.000  0.000   0.000   5.381  0.000 100.000   482
```

```
table(is.na(final_drops$donate_lrc))
```

```
##
## FALSE TRUE
## 2091  482
```

```
#clean up BA
final_drops <- final_drops %>%
  mutate(donate_BA =
    case_when(
      Q77_w2 == "No" ~ 0,
      Q77_w2 == "2" ~ 0,
      donate_BA >= 0 ~ as.numeric(donate_BA)
    )
  )
```

```
#check (481 NAs)
summary(final_drops$donate_BA)
```

```
##   Min. 1st Qu.  Median    Mean 3rd Qu.    Max.   NA's
##  0.000  0.000   0.000   5.618  0.000 100.000   482
```

```
table(is.na(final_drops$donate_BA))
```

```
##
## FALSE TRUE
## 2091  482
```

```
#create all and any variables
final_drops <- final_drops %>%
  mutate(
    donate_all = donate_allsides + donate_lrc + donate_BA,
    donate_any = donate_all > 0
  )
```

```
summary(final_drops$donate_all)
```

```
##      Min. 1st Qu.  Median    Mean 3rd Qu.    Max.    NA's  
##      0.00   0.00   0.00  16.51   0.00  100.00   483
```

```
#Clicked Sign-up for Unify America
```

```
final_drops <- final_drops %>%  
  mutate(  
    UA_interest = case_when(  
      Q82_w3_signedup == "1.0" ~ 1,  
      Q82_w3_signedup == "1" ~1,  
      Q82_w3_signedup == "skipped" ~ 0,  
      Q82_w3_signedup == "8" ~ 0  
    )  
  )
```

```
#check
```

```
table(is.na(final_drops$UA_interest))
```

```
##  
## FALSE TRUE  
## 1614  959
```

Anti democratic attitudes index

```
table(final_drops$Q60_w2)
```

```
##  
##           1           2           3           4  
##           19          31          39          22  
##           9          No Data    not asked  Somewhat oppose  
##           163         382         1107         248  
## Somewhat support  Strongly oppose  Strongly support  
##           173          248          75
```

```
#name variables
```

```
final_drops <- final_drops %>%  
  mutate(  
    antidem1_rep = Q60_w2, #reps  
    antidem2_rep = Q61_w2,  
    antidem3_rep = Q62_w2,  
    antidem4_rep = Q63_w2,  
    antidem5_rep = Q64_w2,  
    antidem6_rep = Q65_w2,  
    antidem1_dem = Q66_w2, #dems  
    antidem2_dem = Q67_w2,  
    antidem3_dem = Q68_w2,  
    antidem4_dem = Q69_w2,  
    antidem5_dem = Q70_w2,  
    antidem6_dem = Q71_w2  
  )
```

```
#anti_dem1
```

```
final_drops <- final_drops %>%  
  mutate(antidem1 =
```

```

case_when(
  antidem1_rep == "Strongly oppose" ~ 0, #reps
  antidem1_rep == "4" ~ 0,
  antidem1_rep == "Somewhat oppose" ~ 1,
  antidem1_rep == "3" ~ 1,
  antidem1_rep == "Somewhat support" ~ 2,
  antidem1_rep == "2" ~ 2,
  antidem1_rep == "Strongly support" ~ 3,
  antidem1_rep == "1" ~ 3,
  antidem1_dem == "Strongly oppose" ~ 0, #dems
  antidem1_dem == "4" ~ 0,
  antidem1_dem == "Somewhat oppose" ~ 1,
  antidem1_dem == "3" ~ 1,
  antidem1_dem == "Somewhat support" ~ 2,
  antidem1_dem == "2" ~ 2,
  antidem1_dem == "Strongly support" ~ 3,
  antidem1_dem == "1" ~ 3
)
)

#check
table(is.na(final_drops$antidem1))

##
## FALSE TRUE
## 2093 480

summary(final_drops$antidem1)

##   Min. 1st Qu.  Median    Mean 3rd Qu.   Max.   NA's
## 0.000 0.000   1.000   1.184  2.000   3.000   480

#anti_dem2
final_drops <- final_drops %>%
  mutate(antidem2 =
    case_when(
      antidem2_rep == "Strongly oppose" ~ 0, #reps
      antidem2_rep == "4" ~ 0,
      antidem2_rep == "Somewhat oppose" ~ 1,
      antidem2_rep == "3" ~ 1,
      antidem2_rep == "Somewhat support" ~ 2,
      antidem2_rep == "2" ~ 2,
      antidem2_rep == "Strongly support" ~ 3,
      antidem2_rep == "1" ~ 3,
      antidem2_dem == "Strongly oppose" ~ 0, #dems
      antidem2_dem == "4" ~ 0,
      antidem2_dem == "Somewhat oppose" ~ 1,
      antidem2_dem == "3" ~ 1,
      antidem2_dem == "Somewhat support" ~ 2,
      antidem2_dem == "2" ~ 2,
      antidem2_dem == "Strongly support" ~ 3,
      antidem2_dem == "1" ~ 3
    )
  )
)

```

```

#check
table(is.na(final_drops$antidem2))

##
## FALSE TRUE
## 2092 481

#anti_dem3
final_drops <- final_drops %>%
  mutate(antidem3 =
    case_when(
      antidem3_rep == "Strongly oppose" ~ 0, #reps
      antidem3_rep == "4" ~ 0,
      antidem3_rep == "Somewhat oppose" ~ 1,
      antidem3_rep == "3" ~ 1,
      antidem3_rep == "Somewhat support" ~ 2,
      antidem3_rep == "2" ~ 2,
      antidem3_rep == "Strongly support" ~ 3,
      antidem3_rep == "1" ~ 3,
      antidem3_dem == "Strongly oppose" ~ 0, #dems
      antidem3_dem == "4" ~ 0,
      antidem3_dem == "Somewhat oppose" ~ 1,
      antidem3_dem == "3" ~ 1,
      antidem3_dem == "Somewhat support" ~ 2,
      antidem3_dem == "2" ~ 2,
      antidem3_dem == "Strongly support" ~ 3,
      antidem3_dem == "1" ~ 3
    )
  )

#anti_dem4
final_drops <- final_drops %>%
  mutate(antidem4 =
    case_when(
      antidem4_rep == "Strongly oppose" ~ 0, #reps
      antidem4_rep == "4" ~ 0,
      antidem4_rep == "Somewhat oppose" ~ 1,
      antidem4_rep == "3" ~ 1,
      antidem4_rep == "Somewhat support" ~ 2,
      antidem4_rep == "2" ~ 2,
      antidem4_rep == "Strongly support" ~ 3,
      antidem4_rep == "1" ~ 3,
      antidem4_dem == "Strongly oppose" ~ 0, #dems
      antidem4_dem == "4" ~ 0,
      antidem4_dem == "Somewhat oppose" ~ 1,
      antidem4_dem == "3" ~ 1,
      antidem4_dem == "Somewhat support" ~ 2,
      antidem4_dem == "2" ~ 2,
      antidem4_dem == "Strongly support" ~ 3,
      antidem4_dem == "1" ~ 3
    )
  )

#anti_dem5

```

```

final_drops <- final_drops %>%
  mutate(antidem5 =
    case_when(
      antidem5_rep == "Strongly oppose" ~ 0, #reps
      antidem5_rep == "4" ~ 0,
      antidem5_rep == "Somewhat oppose" ~ 1,
      antidem5_rep == "3" ~ 1,
      antidem5_rep == "Somewhat support" ~ 2,
      antidem5_rep == "2" ~ 2,
      antidem5_rep == "Strongly support" ~ 3,
      antidem5_rep == "1" ~ 3,
      antidem5_dem == "Strongly oppose" ~ 0, # dems
      antidem5_dem == "4" ~ 0,
      antidem5_dem == "Somewhat oppose" ~ 1,
      antidem5_dem == "3" ~ 1,
      antidem5_dem == "Somewhat support" ~ 2,
      antidem5_dem == "2" ~ 2,
      antidem5_dem == "Strongly support" ~ 3,
      antidem5_dem == "1" ~ 3
    )
  )

```

#anti_dem6

```

final_drops <- final_drops %>%
  mutate(antidem6 =
    case_when(
      antidem6_rep == "Strongly oppose" ~ 0, #reps
      antidem6_rep == "4" ~ 0,
      antidem6_rep == "Somewhat oppose" ~ 1,
      antidem6_rep == "3" ~ 1,
      antidem6_rep == "Somewhat support" ~ 2,
      antidem6_rep == "2" ~ 2,
      antidem6_rep == "Strongly support" ~ 3,
      antidem6_rep == "1" ~ 3,
      antidem6_dem == "Strongly oppose" ~ 0, #dems
      antidem6_dem == "4" ~ 0,
      antidem6_dem == "Somewhat oppose" ~ 1,
      antidem6_dem == "3" ~ 1,
      antidem6_dem == "Somewhat support" ~ 2,
      antidem6_dem == "2" ~ 2,
      antidem6_dem == "Strongly support" ~ 3,
      antidem6_dem == "1" ~ 3
    )
  )

```

#check

```
table(is.na(final_drops$antidem6))
```

```
##
```

```
## FALSE TRUE
```

```
## 2091 482
```

#name variables wave 3

```
final_drops <- final_drops %>%
```

```

mutate(
  antidem1_rep_w3 = Q60_w3,
  antidem2_rep_w3 = Q61_w3,
  antidem3_rep_w3 = Q62_w3,
  antidem4_rep_w3 = Q63_w3,
  antidem5_rep_w3 = Q64_w3,
  antidem6_rep_w3 = Q65_w3,
  antidem1_dem_w3 = Q66_w3,
  antidem2_dem_w3 = Q67_w3,
  antidem3_dem_w3 = Q68_w3,
  antidem4_dem_w3 = Q69_w3,
  antidem5_dem_w3 = Q70_w3,
  antidem6_dem_w3 = Q71_w3
)

#anti_dem1
final_drops <- final_drops %>%
  mutate(antidem1_w3 =
    case_when(
      antidem1_rep_w3 == "Strongly oppose" ~ 0,
      antidem1_rep_w3 == "4" ~ 0,
      antidem1_rep_w3 == "Somewhat oppose" ~ 1,
      antidem1_rep_w3 == "3" ~ 1,
      antidem1_rep_w3 == "Somewhat support" ~ 2,
      antidem1_rep_w3 == "2" ~ 2,
      antidem1_rep_w3 == "Strongly support" ~ 3,
      antidem1_rep_w3 == "1" ~ 3,
      antidem1_dem_w3 == "Strongly oppose" ~ 0,
      antidem1_dem_w3 == "4" ~ 0,
      antidem1_dem_w3 == "Somewhat oppose" ~ 1,
      antidem1_dem_w3 == "3" ~ 1,
      antidem1_dem_w3 == "Somewhat support" ~ 2,
      antidem1_dem_w3 == "2" ~ 2,
      antidem1_dem_w3 == "Strongly support" ~ 3,
      antidem1_dem_w3 == "1" ~ 3
    )
  )

#check
table(final_drops$antidem1_w3)

```

```

##
## 0 1 2 3
## 466 575 369 199

```

```

#anti_dem2
final_drops <- final_drops %>%
  mutate(antidem2_w3 =
    case_when(
      antidem2_rep_w3 == "Strongly oppose" ~ 0,
      antidem2_rep_w3 == "4" ~ 0,
      antidem2_rep_w3 == "Somewhat oppose" ~ 1,
      antidem2_rep_w3 == "3" ~ 1,
      antidem2_rep_w3 == "Somewhat support" ~ 2,

```

```

antidem2_rep_w3 == "2" ~ 2,
antidem2_rep_w3 == "Strongly support" ~ 3,
antidem2_rep_w3 == "1" ~ 3,
antidem2_dem_w3 == "Strongly oppose" ~ 0,
antidem2_dem_w3 == "4" ~ 0,
antidem2_dem_w3 == "Somewhat oppose" ~ 1,
antidem2_dem_w3 == "3" ~ 1,
antidem2_dem_w3 == "Somewhat support" ~ 2,
antidem2_dem_w3 == "2" ~ 2,
antidem2_dem_w3 == "Strongly support" ~ 3,
antidem2_dem_w3 == "1" ~ 3
)
)

```

#anti_dem3

```

final_drops <- final_drops %>%
  mutate(antidem3_w3 =
    case_when(
      antidem3_rep_w3 == "Strongly oppose" ~ 0,
      antidem3_rep_w3 == "4" ~ 0,
      antidem3_rep_w3 == "Somewhat oppose" ~ 1,
      antidem3_rep_w3 == "3" ~ 1,
      antidem3_rep_w3 == "Somewhat support" ~ 2,
      antidem3_rep_w3 == "2" ~ 2,
      antidem3_rep_w3 == "Strongly support" ~ 3,
      antidem3_rep_w3 == "1" ~ 3,
      antidem3_dem_w3 == "Strongly oppose" ~ 0,
      antidem3_dem_w3 == "4" ~ 0,
      antidem3_dem_w3 == "Somewhat oppose" ~ 1,
      antidem3_dem_w3 == "3" ~ 1,
      antidem3_dem_w3 == "Somewhat support" ~ 2,
      antidem3_dem_w3 == "2" ~ 2,
      antidem3_dem_w3 == "Strongly support" ~ 3,
      antidem3_dem_w3 == "1" ~ 3
    )
  )
)

```

#anti_dem4

```

final_drops <- final_drops %>%
  mutate(antidem4_w3 =
    case_when(
      antidem4_rep_w3 == "Strongly oppose" ~ 0,
      antidem4_rep_w3 == "4" ~ 0,
      antidem4_rep_w3 == "Somewhat oppose" ~ 1,
      antidem4_rep_w3 == "3" ~ 1,
      antidem4_rep_w3 == "Somewhat support" ~ 2,
      antidem4_rep_w3 == "2" ~ 2,
      antidem4_rep_w3 == "Strongly support" ~ 3,
      antidem4_rep_w3 == "1" ~ 3,
      antidem4_dem_w3 == "Strongly oppose" ~ 0,
      antidem4_dem_w3 == "4" ~ 0,
      antidem4_dem_w3 == "Somewhat oppose" ~ 1,

```

```

antidem4_dem_w3 == "3" ~ 1,
antidem4_dem_w3 == "Somewhat support" ~ 2,
antidem4_dem_w3 == "2" ~ 2,
antidem4_dem_w3 == "Strongly support" ~ 3,
antidem4_dem_w3 == "1" ~ 3
)
)

#anti_dem5
final_drops <- final_drops %>%
  mutate(antidem5_w3 =
    case_when(
      antidem5_rep_w3 == "Strongly oppose" ~ 0,
      antidem5_rep_w3 == "4" ~ 0,
      antidem5_rep_w3 == "Somewhat oppose" ~ 1,
      antidem5_rep_w3 == "3" ~ 1,
      antidem5_rep_w3 == "Somewhat support" ~ 2,
      antidem5_rep_w3 == "2" ~ 2,
      antidem5_rep_w3 == "Strongly support" ~ 3,
      antidem5_rep_w3 == "1" ~ 3,
      antidem5_dem_w3 == "Strongly oppose" ~ 0,
      antidem5_dem_w3 == "4" ~ 0,
      antidem5_dem_w3 == "Somewhat oppose" ~ 1,
      antidem5_dem_w3 == "3" ~ 1,
      antidem5_dem_w3 == "Somewhat support" ~ 2,
      antidem5_dem_w3 == "2" ~ 2,
      antidem5_dem_w3 == "Strongly support" ~ 3,
      antidem5_dem_w3 == "1" ~ 3
    )
  )

#anti_dem6
final_drops <- final_drops %>%
  mutate(antidem6_w3 =
    case_when(
      antidem6_rep_w3 == "Strongly oppose" ~ 0,
      antidem6_rep_w3 == "4" ~ 0,
      antidem6_rep_w3 == "Somewhat oppose" ~ 1,
      antidem6_rep_w3 == "3" ~ 1,
      antidem6_rep_w3 == "Somewhat support" ~ 2,
      antidem6_rep_w3 == "2" ~ 2,
      antidem6_rep_w3 == "Strongly support" ~ 3,
      antidem6_rep_w3 == "1" ~ 3,
      antidem6_dem_w3 == "Strongly oppose" ~ 0,
      antidem6_dem_w3 == "4" ~ 0,
      antidem6_dem_w3 == "Somewhat oppose" ~ 1,
      antidem6_dem_w3 == "3" ~ 1,
      antidem6_dem_w3 == "Somewhat support" ~ 2,
      antidem6_dem_w3 == "2" ~ 2,
      antidem6_dem_w3 == "Strongly support" ~ 3,
      antidem6_dem_w3 == "1" ~ 3
    )
  )
)

```

```

#check
table(is.na(final_drops$antidem6_w3))

##
## FALSE TRUE
## 1609 964

#create scaled variables
final_drops <- final_drops %>%
  mutate(
    antidem1_scale = scale(antidem1),
    antidem2_scale = scale(antidem2),
    antidem3_scale = scale(antidem3),
    antidem4_scale = scale(antidem4),
    antidem5_scale = scale(antidem5),
    antidem6_scale = scale(antidem6)
  )

#create keys
keys_dem <- list(final_drops=cs(antidem1_scale, antidem2_scale, antidem3_scale,
                                antidem4_scale, antidem5_scale, antidem6_scale)
                )

#alpha function
tmp <- alpha(final_drops, keys_dem, check.keys = T, use ="pairwise")

## Number of categories should be increased in order to count frequencies.

#create indexed variable
final_drops <- final_drops %>%
  mutate(
    antidem_idx = tmp$scores
  )

#check
summary(final_drops$antidem_idx)

##      Min. 1st Qu.  Median    Mean 3rd Qu.    Max.    NA's
## -1.3066 -0.4687 -0.1092  0.0000  0.3895  1.7174   479

#remove
remove(tmp)
remove(keys_dem)

#wave 3 anti-dem index

#create scaled variables for wave 3
final_drops <- final_drops %>%
  mutate(
    antidem1_scale_w3 = scale(antidem1_w3),
    antidem2_scale_w3 = scale(antidem2_w3),
    antidem3_scale_w3 = scale(antidem3_w3),
    antidem4_scale_w3 = scale(antidem4_w3),
    antidem5_scale_w3 = scale(antidem5_w3),

```

```

    antidem6_scale_w3 = scale(antidem6_w3)
  )

#create keys
keys_dem_w3 <- list(final_drops=
  cs(antidem1_scale_w3, antidem2_scale_w3, antidem3_scale_w3,
    antidem4_scale_w3, antidem5_scale_w3, antidem6_scale_w3))

#alpha function
tmp_w3 <- alpha(final_drops, keys_dem_w3, check.keys = T, use ="pairwise")

## Number of categories should be increased in order to count frequencies.

#create new variable
final_drops <- final_drops %>%
  mutate(
    antidem_idx_w3 = tmp_w3$scores
  )

#check
summary(final_drops$antidem_idx_w3)

##      Min. 1st Qu.  Median    Mean 3rd Qu.    Max.    NA's
## -1.3153 -0.4795  0.0022  0.0001  0.4806  1.6921   963

#remove
remove(tmp_w3)
remove(keys_dem_w3)

```

Stereotypes indices

List of attributes that are part of pre-registered index: -Patriotic (pos) -Intelligent (pos) -Honest (pos) -Open Minded (pos) -Generous (pos) -Hypocritical (neg) -Selfish (neg) -Mean (neg)

Additions: -Decent (pos) -Unethical (neg) -Uncaring (neg)

Generous is asked twice in wave 2

```
table(final_drops$Q13_w2_w2)
```

```
##
##          1          2          3          8
##         46         106        118         4
## Applies somewhat Applies well Does not apply No Data
##         640        1046        138        382
## not asked      skipped
##          25          2
```

```

#Patriotic inparty
final_drops <- final_drops %>%
  mutate(patriotic_inparty =
    case_when(
      Q13_w2_w2 == "Does not apply" ~ 0,
      Q13_w2_w2 == "Applies somewhat" ~ 1,
      Q13_w2_w2 == "Applies well" ~ 2,
      Q13_w2_w2 == "1" ~ 0,

```

```

    Q13_w2_w2 == "2" ~ 1,
    Q13_w2_w2 == "3" ~ 2
  )
)

#check
table(is.na(final_drops$patritotic_inparty))

```

```

##
## FALSE TRUE
## 2094 479

```

```

#Patriotic outparty
final_drops <- final_drops %>%
  mutate(patriotic_outparty =
    case_when(
      Q26_w2_w2 == "Does not apply" ~ 0,
      Q26_w2_w2 == "Applies somewhat" ~ 1,
      Q26_w2_w2 == "Applies well" ~ 2,
      Q26_w2_w2 == "1" ~ 0,
      Q26_w2_w2 == "2" ~ 1,
      Q26_w2_w2 == "3" ~ 2
    )
  )

#check
table(is.na(final_drops$patriotic_outparty))

```

```

##
## FALSE TRUE
## 2093 480

```

```

#Intelligent inparty
final_drops <- final_drops %>%
  mutate(intelligent_inparty =
    case_when(
      Q14_w2_w2 == "Does not apply" ~ 0,
      Q14_w2_w2 == "Applies somewhat" ~ 1,
      Q14_w2_w2 == "Applies well" ~ 2,
      Q14_w2_w2 == "1" ~ 0,
      Q14_w2_w2 == "2" ~ 1,
      Q14_w2_w2 == "3" ~ 2
    )
  )

#check
table(is.na(final_drops$intelligent_inparty))

```

```

##
## FALSE TRUE
## 2096 477

```

```

#Intelligent outparty
final_drops <- final_drops %>%
  mutate(intelligent_outparty =
    case_when(

```

```

Q27_w2_w2 == "Does not apply" ~ 0,
Q27_w2_w2 == "Applies somewhat" ~ 1,
Q27_w2_w2 == "Applies well" ~ 2,
Q27_w2_w2 == "1" ~ 0,
Q27_w2_w2 == "2" ~ 1,
Q27_w2_w2 == "3" ~ 2
)
)

#Honest inparty
final_drops <- final_drops %>%
  mutate(honest_inparty =
    case_when(
      Q15_w2_w2 == "Does not apply" ~ 0,
      Q15_w2_w2 == "Applies somewhat" ~ 1,
      Q15_w2_w2 == "Applies well" ~ 2,
      Q15_w2_w2 == "1" ~ 0,
      Q15_w2_w2 == "2" ~ 1,
      Q15_w2_w2 == "3" ~ 2
    )
  )

#Honest outparty
final_drops <- final_drops %>%
  mutate(honest_outparty =
    case_when(
      Q28_w2_w2 == "Does not apply" ~ 0,
      Q28_w2_w2 == "Applies somewhat" ~ 1,
      Q28_w2_w2 == "Applies well" ~ 2,
      Q28_w2_w2 == "1" ~ 0,
      Q28_w2_w2 == "2" ~ 1,
      Q28_w2_w2 == "3" ~ 2
    )
  )

#Open minded inparty
final_drops <- final_drops %>%
  mutate(openminded_inparty =
    case_when(
      Q16_w2_w2 == "Does not apply" ~ 0,
      Q16_w2_w2 == "Applies somewhat" ~ 1,
      Q16_w2_w2 == "Applies well" ~ 2,
      Q16_w2_w2 == "1" ~ 0,
      Q16_w2_w2 == "2" ~ 1,
      Q16_w2_w2 == "3" ~ 2
    )
  )

#Open minded outparty
final_drops <- final_drops %>%
  mutate(openminded_outparty =
    case_when(

```

```

Q29_w2_w2 == "Does not apply" ~ 0,
Q29_w2_w2 == "Applies somewhat" ~ 1,
Q29_w2_w2 == "Applies well" ~ 2,
Q29_w2_w2 == "1" ~ 0,
Q29_w2_w2 == "2" ~ 1,
Q29_w2_w2 == "3" ~ 2
)
)

#Generous inparty
final_drops <- final_drops %>%
  mutate(generous_inparty =
    case_when(
      Q17_w2_w2 == "Does not apply" ~ 0,
      Q17_w2_w2 == "Applies somewhat" ~ 1,
      Q17_w2_w2 == "Applies well" ~ 2,
      Q17_w2_w2 == "1" ~ 0,
      Q17_w2_w2 == "2" ~ 1,
      Q17_w2_w2 == "3" ~ 2
    )
  )

#Generous outparty
final_drops <- final_drops %>%
  mutate(generous_outparty =
    case_when(
      Q30_w2_w2 == "Does not apply" ~ 0,
      Q30_w2_w2 == "Applies somewhat" ~ 1,
      Q30_w2_w2 == "Applies well" ~ 2,
      Q30_w2_w2 == "1" ~ 0,
      Q30_w2_w2 == "2" ~ 1,
      Q30_w2_w2 == "3" ~ 2
    )
  )

#Hypocritical inparty
final_drops <- final_drops %>%
  mutate(hypocritical_inparty =
    case_when(
      Q18_w2_w2 == "Does not apply" ~ 0,
      Q18_w2_w2 == "Applies somewhat" ~ 1,
      Q18_w2_w2 == "Applies well" ~ 2,
      Q18_w2_w2 == "1" ~ 0,
      Q18_w2_w2 == "2" ~ 1,
      Q18_w2_w2 == "3" ~ 2
    )
  )

table(final_drops$Q18_w2_w2)

```

```
##
##
```

1

2

3

8

```

##           113           111           47           3
## Applies somewhat   Applies well   Does not apply   No Data
##           751           162           912           382
##      not asked           skipped
##           25            1

```

```

#Hypocritical outparty
final_drops <- final_drops %>%
  mutate(hypocritical_outparty =
    case_when(
      Q31_w2_w2 == "Does not apply" ~ 0,
      Q31_w2_w2 == "Applies somewhat" ~ 1,
      Q31_w2_w2 == "Applies well" ~ 2,
      Q31_w2_w2 == "1" ~ 0,
      Q31_w2_w2 == "2" ~ 1,
      Q31_w2_w2 == "3" ~ 2
    )
  )

```

```

#Selfish inparty
final_drops <- final_drops %>%
  mutate(selfish_inparty =
    case_when(
      Q19_w2_w2 == "Does not apply" ~ 0,
      Q19_w2_w2 == "Applies somewhat" ~ 1,
      Q19_w2_w2 == "Applies well" ~ 2,
      Q19_w2_w2 == "1" ~ 0,
      Q19_w2_w2 == "2" ~ 1,
      Q19_w2_w2 == "3" ~ 2
    )
  )

```

```

#Selfish outparty
final_drops <- final_drops %>%
  mutate(selfish_outparty =
    case_when(
      Q32_w2_w2 == "Does not apply" ~ 0,
      Q32_w2_w2 == "Applies somewhat" ~ 1,
      Q32_w2_w2 == "Applies well" ~ 2,
      Q32_w2_w2 == "1" ~ 0,
      Q32_w2_w2 == "2" ~ 1,
      Q32_w2_w2 == "3" ~ 2
    )
  )

```

```

#Mean inparty
final_drops <- final_drops %>%
  mutate(mean_inparty =
    case_when(
      Q20_w2_w2 == "Does not apply" ~ 0,
      Q20_w2_w2 == "Applies somewhat" ~ 1,
      Q20_w2_w2 == "Applies well" ~ 2,

```

```

    Q20_w2_w2 == "1" ~ 0,
    Q20_w2_w2 == "2" ~ 1,
    Q20_w2_w2 == "3" ~ 2
  )
)

#Mean outparty
final_drops <- final_drops %>%
  mutate(mean_outparty =
    case_when(
      Q33_w2_w2 == "Does not apply" ~ 0,
      Q33_w2_w2 == "Applies somewhat" ~ 1,
      Q33_w2_w2 == "Applies well" ~ 2,
      Q33_w2_w2 == "1" ~ 0,
      Q33_w2_w2 == "2" ~ 1,
      Q33_w2_w2 == "3" ~ 2
    )
  )

#check
table(is.na(final_drops$mean_outparty))

##
## FALSE TRUE
## 2094 479

#reverse coding negative stereotyping items
final_drops <- final_drops %>%
  mutate(
    hypocritical_inparty_rec = 2 - hypocritical_inparty,
    hypocritical_outparty_rec = 2 - hypocritical_outparty,
    selfish_inparty_rec = 2 - selfish_inparty,
    selfish_outparty_rec = 2 - selfish_outparty,
    mean_inparty_rec = 2 - mean_inparty,
    mean_outparty_rec = 2 - mean_outparty
  )

#positive inparty stereotyping totals
final_drops <- final_drops %>%
  mutate(
    stereo_inparty_pos =
      patriotic_inparty +
      intelligent_inparty +
      honest_inparty +
      openminded_inparty +
      generous_inparty,
    stereo_inparty_pos_scale =
      scale(stereo_inparty_pos)
  )

#check
summary(final_drops$stereo_inparty_pos_scale)

##          V1
## Min.      :-2.8479

```

```

## 1st Qu.: -0.7136
## Median : 0.1401
## Mean   : 0.0000
## 3rd Qu.: 0.9938
## Max.   : 1.4207
## NA's   :483

#outparty positive stereotyping total + scaled
final_drops <- final_drops %>%
  mutate(
    stereo_outparty_pos =
      patriotic_outparty +
      intelligent_outparty +
      honest_outparty +
      openminded_outparty +
      generous_outparty,
    stereo_outparty_pos_scale =
      scale(stereo_outparty_pos)
  )

#inparty negative stereotyping total + scaled
final_drops <- final_drops %>%
  mutate(
    stereo_inparty_neg =
      hypocritical_inparty +
      selfish_inparty +
      mean_inparty,
    stereo_inparty_neg_scale =
      scale(stereo_inparty_neg)
  )

#outparty negative stereotyping + scaled
final_drops <- final_drops %>%
  mutate(
    stereo_outparty_neg =
      hypocritical_outparty +
      selfish_outparty +
      mean_outparty,
    stereo_outparty_neg_scale =
      scale(stereo_outparty_neg)
  )

#strict, 8-item stereotype inparty totals (with reverse-coding)
final_drops <- final_drops %>%
  mutate(
    stereo_inparty =
      patriotic_inparty +
      intelligent_inparty +
      honest_inparty +
      openminded_inparty +
      generous_inparty
  )

```

```

hypocritical_inparty_rec +
selfish_inparty_rec +
mean_inparty_rec
)

#check
summary(final_drops$stereo_inparty)

##   Min. 1st Qu.  Median    Mean 3rd Qu.    Max.   NA's
##   0.00   9.00   11.00   11.17  14.00   16.00   483

#strict, 8-item stereotype outparty totals (with reverse-coding)
final_drops <- final_drops %>%
  mutate(
    stereo_outparty =
      patriotic_outparty +
      intelligent_outparty +
      honest_outparty +
      openminded_outparty +
      generous_outparty +
      hypocritical_outparty_rec +
      selfish_outparty_rec +
      mean_outparty_rec
  )

#check
summary(final_drops$stereo_outparty)

##   Min. 1st Qu.  Median    Mean 3rd Qu.    Max.   NA's
##   0.000   2.000   5.000   5.408   8.000   16.000   482

#In minus Out stereotyping
final_drops <- final_drops %>%
  mutate(
    stereo_inout = stereo_inparty - stereo_outparty,
    stereo_inout_scale = scale(stereo_inout)
  )

table(final_drops$Q13_w3)

##
##           1           2           3           8
##           39           78           98           2
## Applies somewhat   Applies well   Does not apply   No Data
##           431           846           117           836
##           skipped
##           3

#Patriotic inparty
final_drops <- final_drops %>%
  mutate(patriotic_inparty_w3 =
    case_when(
      Q13_w3 == "Does not apply" ~ 0,
      Q13_w3 == "Applies somewhat" ~ 1,
      Q13_w3 == "Applies well" ~ 2,
      Q13_w3 == "1" ~ 0,

```

```
    Q13_w3 == "2" ~ 1,  
    Q13_w3 == "3" ~ 2  
  )  
)  
  
#check  
table(is.na(final_drops$patritotic_inparty_w3))
```

```
##  
## FALSE TRUE  
## 1609 964
```

```
#Patriotic outparty  
final_drops <- final_drops %>%  
  mutate(patritotic_outparty_w3 =  
    case_when(  
      Q26_w3 == "Does not apply" ~ 0,  
      Q26_w3 == "Applies somewhat" ~ 1,  
      Q26_w3 == "Applies well" ~ 2,  
      Q26_w3 == "1" ~ 0,  
      Q26_w3 == "2" ~ 1,  
      Q26_w3 == "3" ~ 2  
    )  
  )
```

```
#check  
table(final_drops$patritotic_outparty_w3)
```

```
##  
## 0 1 2  
## 616 705 286
```

```
#Intelligent inparty  
final_drops <- final_drops %>%  
  mutate(intelligent_inparty_w3 =  
    case_when(  
      Q14_w3 == "Does not apply" ~ 0,  
      Q14_w3 == "Applies somewhat" ~ 1,  
      Q14_w3 == "Applies well" ~ 2,  
      Q14_w3 == "1" ~ 0,  
      Q14_w3 == "2" ~ 1,  
      Q14_w3 == "3" ~ 2  
    )  
  )
```

```
#check  
table(is.na(final_drops$intelligent_inparty_w3))
```

```
##  
## FALSE TRUE  
## 1611 962
```

```
#Intelligent outparty  
final_drops <- final_drops %>%  
  mutate(intelligent_outparty_w3 =  
    case_when(  
      Q14_w3 == "Does not apply" ~ 0,  
      Q14_w3 == "Applies somewhat" ~ 1,  
      Q14_w3 == "Applies well" ~ 2,  
      Q14_w3 == "1" ~ 0,  
      Q14_w3 == "2" ~ 1,  
      Q14_w3 == "3" ~ 2  
    )  
  )
```

```

    Q27_w3 == "Does not apply" ~ 0,
    Q27_w3 == "Applies somewhat" ~ 1,
    Q27_w3 == "Applies well" ~ 2,
    Q27_w3 == "1" ~ 0,
    Q27_w3 == "2" ~ 1,
    Q27_w3 == "3" ~ 2
  )
)

#Honest inparty
final_drops <- final_drops %>%
  mutate(honest_inparty_w3 =
    case_when(
      Q15_w3 == "Does not apply" ~ 0,
      Q15_w3 == "Applies somewhat" ~ 1,
      Q15_w3 == "Applies well" ~ 2,
      Q15_w3 == "1" ~ 0,
      Q15_w3 == "2" ~ 1,
      Q15_w3 == "3" ~ 2
    )
  )

#Honest outparty
final_drops <- final_drops %>%
  mutate(honest_outparty_w3 =
    case_when(
      Q28_w3 == "Does not apply" ~ 0,
      Q28_w3 == "Applies somewhat" ~ 1,
      Q28_w3 == "Applies well" ~ 2,
      Q28_w3 == "1" ~ 0,
      Q28_w3 == "2" ~ 1,
      Q28_w3 == "3" ~ 2
    )
  )

#Open minded inparty
final_drops <- final_drops %>%
  mutate(openminded_inparty_w3 =
    case_when(
      Q16_w3 == "Does not apply" ~ 0,
      Q16_w3 == "Applies somewhat" ~ 1,
      Q16_w3 == "Applies well" ~ 2,
      Q16_w3 == "1" ~ 0,
      Q16_w3 == "2" ~ 1,
      Q16_w3 == "3" ~ 2
    )
  )

#Open minded outparty
final_drops <- final_drops %>%
  mutate(openminded_outparty_w3 =
    case_when(

```

```

Q29_w3 == "Does not apply" ~ 0,
Q29_w3 == "Applies somewhat" ~ 1,
Q29_w3 == "Applies well" ~ 2,
Q29_w3 == "1" ~ 0,
Q29_w3 == "2" ~ 1,
Q29_w3 == "3" ~ 2
)
)

#Generous inparty
final_drops <- final_drops %>%
  mutate(generous_inparty_w3 =
    case_when(
      Q17_w3 == "Does not apply" ~ 0,
      Q17_w3 == "Applies somewhat" ~ 1,
      Q17_w3 == "Applies well" ~ 2,
      Q17_w3 == "1" ~ 0,
      Q17_w3 == "2" ~ 1,
      Q17_w3 == "3" ~ 2
    )
  )

#Generous outparty
final_drops <- final_drops %>%
  mutate(generous_outparty_w3 =
    case_when(
      Q30_w3 == "Does not apply" ~ 0,
      Q30_w3 == "Applies somewhat" ~ 1,
      Q30_w3 == "Applies well" ~ 2,
      Q30_w3 == "1" ~ 0,
      Q30_w3 == "2" ~ 1,
      Q30_w3 == "3" ~ 2
    )
  )

#Hypocritical inparty
final_drops <- final_drops %>%
  mutate(hypocritical_inparty_w3 =
    case_when(
      Q18_w3 == "Does not apply" ~ 0,
      Q18_w3 == "Applies somewhat" ~ 1,
      Q18_w3 == "Applies well" ~ 2,
      Q18_w3 == "1" ~ 0,
      Q18_w3 == "2" ~ 1,
      Q18_w3 == "3" ~ 2
    )
  )

#Hypocritical outparty
final_drops <- final_drops %>%
  mutate(hypocritical_outparty_w3 =

```

```

    case_when(
      Q31_w3 == "Does not apply" ~ 0,
      Q31_w3 == "Applies somewhat" ~ 1,
      Q31_w3 == "Applies well" ~ 2,
      Q31_w3 == "1" ~ 0,
      Q31_w3 == "2" ~ 1,
      Q31_w3 == "3" ~ 2
    )
  )

#Selfish inparty
final_drops <- final_drops %>%
  mutate(selfish_inparty_w3 =
    case_when(
      Q19_w3 == "Does not apply" ~ 0,
      Q19_w3 == "Applies somewhat" ~ 1,
      Q19_w3 == "Applies well" ~ 2,
      Q19_w3 == "1" ~ 0,
      Q19_w3 == "2" ~ 1,
      Q19_w3 == "3" ~ 2
    )
  )

#Selfish outparty
final_drops <- final_drops %>%
  mutate(selfish_outparty_w3 =
    case_when(
      Q32_w3 == "Does not apply" ~ 0,
      Q32_w3 == "Applies somewhat" ~ 1,
      Q32_w3 == "Applies well" ~ 2,
      Q32_w3 == "1" ~ 0,
      Q32_w3 == "2" ~ 1,
      Q32_w3 == "3" ~ 2
    )
  )

#Mean inparty
final_drops <- final_drops %>%
  mutate(mean_inparty_w3 =
    case_when(
      Q20_w3 == "Does not apply" ~ 0,
      Q20_w3 == "Applies somewhat" ~ 1,
      Q20_w3 == "Applies well" ~ 2,
      Q20_w3 == "1" ~ 0,
      Q20_w3 == "2" ~ 1,
      Q20_w3 == "3" ~ 2
    )
  )

#Mean outparty
final_drops <- final_drops %>%

```

```
mutate(mean_outparty_w3 =
  case_when(
    Q33_w3 == "Does not apply" ~ 0,
    Q33_w3 == "Applies somewhat" ~ 1,
    Q33_w3 == "Applies well" ~ 2,
    Q33_w3 == "1" ~ 0,
    Q33_w3 == "2" ~ 1,
    Q33_w3 == "3" ~ 2
  )
)
```

```
#reverse coding
final_drops <- final_drops %>%
  mutate(
    hypocritical_inparty_rec_w3 = 2 - hypocritical_inparty_w3,
    hypocritical_outparty_rec_w3 = 2 - hypocritical_outparty_w3,
    selfish_inparty_rec_w3 = 2 - selfish_inparty_w3,
    selfish_outparty_rec_w3 = 2 - selfish_outparty_w3,
    mean_inparty_rec_w3 = 2 - mean_inparty_w3,
    mean_outparty_rec_w3 = 2 - mean_outparty_w3
  )
```

```
#strict, 8-item stereotype inparty totals (with reverse-coding)
final_drops <- final_drops %>%
  mutate(
    stereo_inparty_w3 =
      patriotic_inparty_w3 +
      intelligent_inparty_w3 +
      honest_inparty_w3 +
      openminded_inparty_w3 +
      generous_inparty_w3 +
      hypocritical_inparty_rec_w3 +
      selfish_inparty_rec_w3 +
      mean_inparty_rec_w3
  )
```

```
#check
summary(final_drops$stereo_inparty_w3)
```

```
##    Min. 1st Qu.  Median    Mean 3rd Qu.    Max.   NA's
##    0.00   9.00   12.00   11.27  14.00   16.00   966
```

```
#strict, 8-item stereotype outparty totals (with reverse-coding)
final_drops <- final_drops %>%
  mutate(
    stereo_outparty_w3 =
      patriotic_outparty_w3 +
      intelligent_outparty_w3 +
      honest_outparty_w3 +
      openminded_outparty_w3 +
      generous_outparty_w3 +
      hypocritical_outparty_rec_w3 +
```

```

    selfish_outparty_rec_w3 +
    mean_outparty_rec_w3
  )

#check
summary(final_drops$stereo_outparty_w3)

##   Min. 1st Qu.  Median    Mean 3rd Qu.    Max.   NA's
##   0.00   2.00   6.00   5.41   8.00  16.00   970

#In minus Out stereotyping wave 3
final_drops <- final_drops %>%
  mutate(
    stereo_inout_w3 = stereo_inparty_w3 - stereo_outparty_w3,
    stereo_inout_scale_w3 = scale(stereo_inout_w3)
  )

```

Add-ons to stereotyping measures

```

#decent inparty
final_drops <- final_drops %>%
  mutate(decent_inparty =
    case_when(
      Q21_w2_w2 == "Does not apply" ~ 0,
      Q21_w2_w2 == "Applies somewhat" ~ 1,
      Q21_w2_w2 == "Applies well" ~ 2,
      Q21_w2_w2 == "1" ~ 0,
      Q21_w2_w2 == "2" ~ 1,
      Q21_w2_w2 == "3" ~ 2
    )
  )

#decent outparty
final_drops <- final_drops %>%
  mutate(decent_outparty =
    case_when(
      Q34_w2_w2 == "Does not apply" ~ 0,
      Q34_w2_w2 == "Applies somewhat" ~ 1,
      Q34_w2_w2 == "Applies well" ~ 2,
      Q34_w2_w2 == "1" ~ 0,
      Q34_w2_w2 == "2" ~ 1,
      Q34_w2_w2 == "3" ~ 2
    )
  )

#check
table(is.na(final_drops$decent_outparty))

##
## FALSE  TRUE
## 2091   482

```

```

#unethical inparty
final_drops <- final_drops %>%
  mutate(unethical_inparty =

```

```

case_when(
  Q22_w2_w2 == "Does not apply" ~ 0,
  Q22_w2_w2 == "Applies somewhat" ~ 1,
  Q22_w2_w2 == "Applies well" ~ 2,
  Q22_w2_w2 == "1" ~ 0,
  Q22_w2_w2 == "2" ~ 1,
  Q22_w2_w2 == "3" ~ 2
)
)

#unethical outparty
final_drops <- final_drops %>%
  mutate(unethical_outparty =
    case_when(
      Q35_w2_w2 == "Does not apply" ~ 0,
      Q35_w2_w2 == "Applies somewhat" ~ 1,
      Q35_w2_w2 == "Applies well" ~ 2,
      Q35_w2_w2 == "1" ~ 0,
      Q35_w2_w2 == "2" ~ 1,
      Q35_w2_w2 == "3" ~ 2
    )
  )

#uncaring inparty
final_drops <- final_drops %>%
  mutate(uncaring_inparty =
    case_when(
      Q24_w2_w2 == "Does not apply" ~ 0,
      Q24_w2_w2 == "Applies somewhat" ~ 1,
      Q24_w2_w2 == "Applies well" ~ 2,
      Q24_w2_w2 == "1" ~ 0,
      Q24_w2_w2 == "2" ~ 1,
      Q24_w2_w2 == "3" ~ 2
    )
  )

#uncaring outparty
final_drops <- final_drops %>%
  mutate(uncaring_outparty =
    case_when(
      Q37_w2_w2 == "Does not apply" ~ 0,
      Q37_w2_w2 == "Applies somewhat" ~ 1,
      Q37_w2_w2 == "Applies well" ~ 2,
      Q37_w2_w2 == "1" ~ 0,
      Q37_w2_w2 == "2" ~ 1,
      Q37_w2_w2 == "3" ~ 2
    )
  )

#decent inparty w3
final_drops <- final_drops %>%
  mutate(decent_inparty_w3 =

```

```

    case_when(
      Q21_w3 == "Does not apply" ~ 0,
      Q21_w3 == "Applies somewhat" ~ 1,
      Q21_w3 == "Applies well" ~ 2,
      Q21_w3 == "1" ~ 0,
      Q21_w3 == "2" ~ 1,
      Q21_w3 == "3" ~ 2
    )
  )
)

table(is.na(final_drops$decent_inparty_w3))

```

```

##
## FALSE TRUE
## 1611 962

```

```

#decent outparty w3
final_drops <- final_drops %>%
  mutate(decent_outparty_w3 =
    case_when(
      Q34_w3 == "Does not apply" ~ 0,
      Q34_w3 == "Applies somewhat" ~ 1,
      Q34_w3 == "Applies well" ~ 2,
      Q34_w3 == "1" ~ 0,
      Q34_w3 == "2" ~ 1,
      Q34_w3 == "3" ~ 2
    )
  )
)

```

```

#unethical inparty w3
final_drops <- final_drops %>%
  mutate(unethical_inparty_w3 =
    case_when(
      Q22_w3 == "Does not apply" ~ 0,
      Q22_w3 == "Applies somewhat" ~ 1,
      Q22_w3 == "Applies well" ~ 2,
      Q22_w3 == "1" ~ 0,
      Q22_w3 == "2" ~ 1,
      Q22_w3 == "3" ~ 2
    )
  )
)

```

```

#unethical outparty w3
final_drops <- final_drops %>%
  mutate(unethical_outparty_w3 =
    case_when(
      Q35_w3 == "Does not apply" ~ 0,
      Q35_w3 == "Applies somewhat" ~ 1,
      Q35_w3 == "Applies well" ~ 2,
      Q35_w3 == "1" ~ 0,
      Q35_w3 == "2" ~ 1,
      Q35_w3 == "3" ~ 2
    )
  )
)

```

```

)
)

#uncaring inparty w3
final_drops <- final_drops %>%
  mutate(uncaring_inparty_w3 =
    case_when(
      Q24_w3 == "Does not apply" ~ 0,
      Q24_w3 == "Applies somewhat" ~ 1,
      Q24_w3 == "Applies well" ~ 2,
      Q24_w3 == "1" ~ 0,
      Q24_w3 == "2" ~ 1,
      Q24_w3 == "3" ~ 2
    )
  )
)
)

#uncaring outparty w3
final_drops <- final_drops %>%
  mutate(uncaring_outparty_w3 =
    case_when(
      Q37_w3 == "Does not apply" ~ 0,
      Q37_w3 == "Applies somewhat" ~ 1,
      Q37_w3 == "Applies well" ~ 2,
      Q37_w3 == "1" ~ 0,
      Q37_w3 == "2" ~ 1,
      Q37_w3 == "3" ~ 2
    )
  )
)
)

```

```

#reverse code negative items
final_drops <- final_drops %>%
  mutate(
    unethical_inparty_rec = 2 -
      unethical_inparty,
    unethical_outparty_rec = 2 -
      unethical_outparty,
    uncaring_inparty_rec = 2 -
      uncaring_inparty,
    uncaring_outparty_rec = 2 -
      uncaring_outparty
  )

#reverse code w3
final_drops <- final_drops %>%
  mutate(
    unethical_inparty_rec_w3 = 2 -
      unethical_inparty_w3,
    unethical_outparty_rec_w3 = 2 -
      unethical_outparty_w3,
    uncaring_inparty_rec_w3 = 2 -
      uncaring_inparty_w3,
    uncaring_outparty_rec_w3 = 2 -
      uncaring_outparty_w3
  )
)

```

```

#11-item stereotype inparty totals (with reverse-coding)
final_drops <- final_drops %>%
  mutate(
    stereo_inparty_full =
      patriotic_inparty +
      intelligent_inparty +
      honest_inparty +
      openminded_inparty +
      generous_inparty+
      decent_inparty +
      hypocritical_inparty_rec +
      selfish_inparty_rec +
      mean_inparty_rec +
      unethical_inparty_rec +
      uncaring_inparty_rec
  )

#check
#summary(final_df$stereo_inparty_full)

#11-item stereotype outparty totals (with reverse-coding)
final_drops <- final_drops %>%
  mutate(
    stereo_outparty_full =
      patriotic_outparty +
      intelligent_outparty +
      honest_outparty +
      openminded_outparty +
      generous_outparty+
      decent_outparty +
      hypocritical_outparty_rec +
      selfish_outparty_rec +
      mean_outparty_rec +
      unethical_outparty_rec +
      uncaring_outparty_rec
  )

#check
#summary(final_df$stereo_outparty_full)

#In minus Out stereotyping
final_drops <- final_drops %>%
  mutate(
    stereo_inout_full = stereo_inparty_full - stereo_outparty_full,
    stereo_inout_full_scale = scale(stereo_inout_full)
  )

#summary(final_drops$stereo_inout)
#summary(final_drops$stereo_inout_full)

#11-item stereotype inparty totals (with reverse-coding)
final_drops <- final_drops %>%

```

```

mutate(
  stereo_inparty_full_w3 =
    patriotic_inparty_w3 +
    intelligent_inparty_w3 +
    honest_inparty_w3 +
    openminded_inparty_w3 +
    generous_inparty_w3+
    decent_inparty_w3 +
    hypocritical_inparty_rec_w3 +
    selfish_inparty_rec_w3 +
    mean_inparty_rec_w3 +
    unethical_inparty_rec_w3 +
    uncaring_inparty_rec_w3
)

#check
#summary(final_drops$stereo_inparty_full)

#11-item stereotype outparty totals (with reverse-coding)
final_drops <- final_drops %>%
  mutate(
    stereo_outparty_full_w3 =
      patriotic_outparty_w3 +
      intelligent_outparty_w3 +
      honest_outparty_w3 +
      openminded_outparty_w3 +
      generous_outparty_w3+
      decent_outparty_w3 +
      hypocritical_outparty_rec_w3 +
      selfish_outparty_rec_w3 +
      mean_outparty_rec_w3 +
      unethical_outparty_rec_w3 +
      uncaring_outparty_rec_w3
  )

#check
#summary(final_drops$stereo_outparty_full)

#In minus Out stereotyping
final_drops <- final_drops %>%
  mutate(
    stereo_inout_full_w3 = stereo_inparty_full_w3 - stereo_outparty_full_w3,
    stereo_inout_full_scale_w3 = scale(stereo_inout_full_w3)
  )

#summary(final_drops$stereo_inout)
#summary(final_drops$stereo_inout_full_scale_w3)

```

Mass perceptions

```

#name variables
final_drops <- final_drops %>%

```

```

mutate(
  mass_abortion_outparty = as.numeric(Q54_w2),
  mass_leave_outparty = as.numeric(Q55_w2),
  mass_marriage_outparty = as.numeric(Q56_w2),
  mass_abortion_inparty = as.numeric(Q57_w2),
  mass_leave_inparty = as.numeric(Q58_w2),
  mass_marriage_inparty = as.numeric(Q59_w2)
)

```

```

## Warning: There were 6 warnings in `mutate()`.
## The first warning was:
## i In argument: `mass_abortion_outparty = as.numeric(Q54_w2)`.
## Caused by warning:
## ! NAs introduced by coercion
## i Run `dplyr::last_dplyr_warnings()` to see the 5 remaining warnings.

```

```

#remove 997 and 998 values

```

```

final_drops <- final_drops %>%
  mutate(
    mass_abortion_outparty =
      replace(mass_abortion_outparty, mass_abortion_outparty > 100, NA),
    mass_leave_outparty =
      replace(mass_leave_outparty, mass_leave_outparty > 100, NA),
    mass_marriage_outparty =
      replace(mass_marriage_outparty, mass_marriage_outparty > 100, NA),
    mass_abortion_inparty =
      replace(mass_abortion_inparty, mass_abortion_inparty > 100, NA),
    mass_leave_inparty =
      replace(mass_leave_inparty, mass_leave_inparty > 100, NA),
    mass_marriage_inparty =
      replace(mass_marriage_inparty, mass_marriage_inparty > 100, NA),
  )

```

```

#difference

```

```

final_drops <- final_drops %>%
  mutate(
    mass_abortion_diff = mass_abortion_inparty - mass_abortion_outparty,
    mass_leave_diff = mass_leave_inparty - mass_leave_outparty,
    mass_marriage_diff = mass_marriage_inparty - mass_marriage_outparty
  )

```

```

#name variables

```

```

final_drops <- final_drops %>%
  mutate(
    mass_abortion_outparty_w3 = as.numeric(Q54_w3),
    mass_leave_outparty_w3 = as.numeric(Q55_w3),
    mass_marriage_outparty_w3 = as.numeric(Q56_w3),
    mass_abortion_inparty_w3 = as.numeric(Q57_w3),
    mass_leave_inparty_w3 = as.numeric(Q58_w3),
    mass_marriage_inparty_w3 = as.numeric(Q59_w3)
  )

```

```

## Warning: There were 6 warnings in `mutate()`.
## The first warning was:
## i In argument: `mass_abortion_outparty_w3 = as.numeric(Q54_w3)`.

```

```
## Caused by warning:
## ! NAs introduced by coercion
## i Run `dplyr::last_dplyr_warnings()` to see the 5 remaining warnings.
```

```
final_drops <- final_drops %>%
  mutate(
    mass_abortion_outparty_w3 =
      replace(mass_abortion_outparty_w3, mass_abortion_outparty_w3 > 100, NA),
    mass_leave_outparty_w3 =
      replace(mass_leave_outparty_w3, mass_leave_outparty_w3 > 100, NA),
    mass_marriage_outparty_w3 =
      replace(mass_marriage_outparty_w3, mass_marriage_outparty_w3 > 100, NA),
    mass_abortion_inparty_w3 =
      replace(mass_abortion_inparty_w3, mass_abortion_inparty_w3 > 100, NA),
    mass_leave_inparty_w3 =
      replace(mass_leave_inparty_w3, mass_leave_inparty_w3 > 100, NA),
    mass_marriage_inparty_w3 =
      replace(mass_marriage_inparty_w3, mass_marriage_inparty_w3 > 100, NA),
  )

#difference
final_drops <- final_drops %>%
  mutate(
    mass_abortion_diff_w3 = mass_abortion_inparty_w3 - mass_abortion_outparty_w3,
    mass_leave_diff_w3 = mass_leave_inparty_w3 - mass_leave_outparty_w3,
    mass_marriage_diff_w3 = mass_marriage_inparty_w3 - mass_marriage_outparty_w3
  )

summary(final_drops$mass_abortion_diff_w3)
```

```
##   Min. 1st Qu.  Median    Mean 3rd Qu.    Max.   NA's
## -100.00   0.00   37.50   30.72   67.00  100.00  1123
```

```
#create new variable
final_drops <- final_drops %>%
  mutate(
    mass_abort_scale = scale(mass_abortion_diff),
    mass_leave_scale = scale(mass_leave_diff),
    mass_marriage_scale = scale(mass_marriage_diff)
  )

#create keys
keys_mass <- list(
  final_drops=cs(mass_abort_scale, mass_leave_scale, mass_marriage_scale)
)

#alpha function
tmp_mass <- alpha(final_drops, keys_mass, check.keys = T, use ="pairwise")
```

```
## Number of categories should be increased in order to count frequencies.
```

```
#create indexed variable
final_drops <- final_drops %>%
  mutate(
```

```

    mass_perc_idx = tmp_mass$scores
  )

#check (a little off, probably due to missing NAs from attrition)
summary(final_drops$mass_perc_idx)

##   Min. 1st Qu.  Median    Mean 3rd Qu.    Max.   NA's
## -3.1625 -0.6860  0.0975 -0.0059  0.7149  1.9824   676
summary(final_df$mass_perc_idx)

## Warning: Unknown or uninitialised column: `mass_perc_idx`.

## Length Class Mode
##      0  NULL  NULL

#remove vestiges
remove(keys_mass)
remove(tmp_mass)

#create new variable
final_drops <- final_drops %>%
  mutate(
    mass_abort_scale_w3 = scale(mass_abortion_diff_w3),
    mass_leave_scale_w3 = scale(mass_leave_diff_w3),
    mass_marriage_scale_w3 = scale(mass_marriage_diff_w3)
  )

#create keys
keys_mass_w3 <- list(
  final_drops=cs(mass_abort_scale_w3, mass_leave_scale_w3, mass_marriage_scale_w3)
)

#alpha function
tmp_mass_w3 <- alpha(final_drops, keys_mass_w3, check.keys = T, use ="pairwise")

## Number of categories should be increased in order to count frequencies.

#create indexed variable
final_drops <- final_drops %>%
  mutate(
    mass_perc_idx_w3 = tmp_mass_w3$scores
  )

#check
summary(final_drops$mass_perc_idx_w3)

##   Min. 1st Qu.  Median    Mean 3rd Qu.    Max.   NA's
## -3.0325 -0.6458  0.0623 -0.0016  0.6514  2.0385  1090

#remove vestiges
remove(tmp_mass_w3)
remove(keys_mass_w3)

```

Yarrow Questions

```
table(final_drops$Q41_w2_w2)
```

```
##
##           1           2
##          32          34
##           3           4
##         103          63
##           5           8
##          39           3
## Neither agree nor disagree      No Data
##          635          382
##          not asked          skipped
##           26           1
##          Somewhat agree      Somewhat disagree
##          464          278
##          Strongly agree      Strongly disagree
##          199          248
```

```
#polarization negatively affects relationships
```

```
final_drops <- final_drops %>%
```

```
  mutate(
    neg_pol = #create variable
    case_when(
      Q41_w2_w2 == "Strongly disagree" ~ 0,
      Q41_w2_w2 == "Somewhat disagree" ~ 1,
      Q41_w2_w2 == "Neither agree nor disagree" ~ 2,
      Q41_w2_w2 == "Somewhat agree" ~ 3,
      Q41_w2_w2 == "Strongly agree" ~ 4,
      Q41_w2_w2 == "1" ~ 0,
      Q41_w2_w2 == "2" ~ 1,
      Q41_w2_w2 == "3" ~ 2,
      Q41_w2_w2 == "4" ~ 3,
      Q41_w2_w2 == "5" ~ 4
    ),
    neg_pol_dum = neg_pol > 2 #create dummy
  )
```

```
table(final_drops$neg_pol)
```

```
##
##  0  1  2  3  4
## 280 312 738 527 238
```

```
table(final_drops$Q42_w2_w2)
```

```
##
##           1           2
##          36          34
##           3           4
##         124          42
##           5           8
##          34           4
## Neither agree nor disagree      No Data
##          803          382
```

```
##           not asked           skipped
##           26             2
##           Somewhat agree       Somewhat disagree
##           423             311
##           Strongly agree       Strongly disagree
##           104             182
```

```
#ability to repair polarized relationships
final_drops <- final_drops %>%
  mutate(
    repair_pol = #create variable
      case_when(
        Q42_w2_w2 == "Strongly disagree" ~ 0,
        Q42_w2_w2 == "Somewhat disagree" ~ 1,
        Q42_w2_w2 == "Neither agree nor disagree" ~ 2,
        Q42_w2_w2 == "Somewhat agree" ~ 3,
        Q42_w2_w2 == "Strongly agree" ~ 4,
        Q42_w2_w2 == "1" ~ 0,
        Q42_w2_w2 == "2" ~ 1,
        Q42_w2_w2 == "3" ~ 2,
        Q42_w2_w2 == "4" ~ 3,
        Q42_w2_w2 == "5" ~ 4
      ),
    repair_pol_dum = repair_pol > 2, #create dummy
    repair_pol_scale=scale(repair_pol)
  )
```

```
#curiosity about outparty
final_drops <- final_drops %>%
  mutate(
    curious_outparty = #create variable
      case_when(
        Q43_w2_w2 == "Strongly disagree" ~ 0,
        Q43_w2_w2 == "Somewhat disagree" ~ 1,
        Q43_w2_w2 == "Neither agree nor disagree" ~ 2,
        Q43_w2_w2 == "Somewhat agree" ~ 3,
        Q43_w2_w2 == "Strongly agree" ~ 4,
        Q43_w2_w2 == "1" ~ 0,
        Q43_w2_w2 == "2" ~ 1,
        Q43_w2_w2 == "3" ~ 2,
        Q43_w2_w2 == "4" ~ 3,
        Q43_w2_w2 == "5" ~ 4
      ),
    curious_outparty_dum = curious_outparty > 2 #create dummy
  )
```

```
#check
table(is.na(final_drops$curious_outparty))
```

```
##
## FALSE TRUE
## 2095 478
```

```
#Wave 3
final_drops <- final_drops %>%
```

```

mutate(
  curious_outparty_w3 = #create variable
  case_when(
    Q43_w3 == "Strongly disagree" ~ 0,
    Q43_w3 == "Somewhat disagree" ~ 1,
    Q43_w3 == "Neither agree nor disagree" ~ 2,
    Q43_w3 == "Somewhat agree" ~ 3,
    Q43_w3 == "Strongly agree" ~ 4,
    Q43_w3 == "1" ~ 0,
    Q43_w3 == "2" ~ 1,
    Q43_w3 == "3" ~ 2,
    Q43_w3 == "4" ~ 3,
    Q43_w3 == "5" ~ 4
  ),
  curious_outparty_dum_w3 = curious_outparty_w3 > 2 #create dummy
)

#scale
final_drops <- final_drops %>%
  mutate(
    curious_outparty_scale = scale(curious_outparty),
    curious_outparty_w3_scale = scale(curious_outparty_w3)
  )

```

```
table(final_drops$Q47_w2)
```

```

##
##          1          2
##         30         30
##          3          4
##         38         72
##          5          6
##         44         32
##          7         98
##         25          3
##      Extremely optimistic      Extremely pessimistic
##         64         207
## Neither optimistic nor pessimistic      No Data
##         375         382
##          not asked      skipped
##          26          1
##      Somewhat optimistic      Somewhat pessimistic
##         349         429
##          Very optimistic      Very pessimistic
##         122         278

```

```

#optimism about overcoming polarization (reverse-coded, in original 1 is extremely optimistic, 7 is ext
final_drops <- final_drops %>%
  mutate(
    optimism_pol = #create variable
    case_when(
      Q47_w2 == "Extremely pessimistic" ~ 0,
      Q47_w2 == "Very pessimistic" ~ 1,
      Q47_w2 == "Somewhat pessimistic" ~ 2,

```

```

Q47_w2 == "Neither optimistic nor pessimistic" ~ 3,
Q47_w2 == "Somewhat optimistic" ~ 4,
Q47_w2 == "Very optimistic" ~ 5,
Q47_w2 == "Extremely optimistic" ~ 6,
Q47_w2 == "1" ~ 6,
Q47_w2 == "2" ~ 5,
Q47_w2 == "3" ~ 4,
Q47_w2 == "4" ~ 3,
Q47_w2 == "5" ~ 2,
Q47_w2 == "6" ~ 1,
Q47_w2 == "7" ~ 0
)
)

#wave 3
#optimism about overcoming polarization
final_drops <- final_drops %>%
  mutate(
    optimism_pol_w3 = #create variable
    case_when(
      Q47_w3 == "Extremely pessimistic" ~ 0,
      Q47_w3 == "Very pessimistic" ~ 1,
      Q47_w3 == "Somewhat pessimistic" ~ 2,
      Q47_w3 == "Neither optimistic nor pessimistic" ~ 3,
      Q47_w3 == "Somewhat optimistic" ~ 4,
      Q47_w3 == "Very optimistic" ~ 5,
      Q47_w3 == "Extremely optimistic" ~ 6,
      Q47_w3 == "1" ~ 6,
      Q47_w3 == "2" ~ 5,
      Q47_w3 == "3" ~ 4,
      Q47_w3 == "4" ~ 3,
      Q47_w3 == "5" ~ 2,
      Q47_w3 == "6" ~ 1,
      Q47_w3 == "7" ~ 0
    )
  )
)

```

```

#belief in possibility of non-violent democratic change
final_drops <- final_drops %>%
  mutate(
    nonviol_change = #create variable
    case_when(
      Q48_w2_w2 == "Strongly disagree" ~ 0,
      Q48_w2_w2 == "Somewhat disagree" ~ 1,
      Q48_w2_w2 == "Neither agree nor disagree" ~ 2,
      Q48_w2_w2 == "Somewhat agree" ~ 3,
      Q48_w2_w2 == "Strongly agree" ~ 4,
      Q48_w2_w2 == "1" ~ 0,
      Q48_w2_w2 == "2" ~ 1,
      Q48_w2_w2 == "3" ~ 2,
      Q48_w2_w2 == "4" ~ 3,
      Q48_w2_w2 == "5" ~ 4
    )
  )
)

```

```

)

#wave 3
final_drops <- final_drops %>%
  mutate(
    nonviol_change_w3 = #create variable
      case_when(
        Q48_w3 == "Strongly disagree" ~ 0,
        Q48_w3 == "Somewhat disagree" ~ 1,
        Q48_w3 == "Neither agree nor disagree" ~ 2,
        Q48_w3 == "Somewhat agree" ~ 3,
        Q48_w3 == "Strongly agree" ~ 4,
        Q48_w3 == "1" ~ 0,
        Q48_w3 == "2" ~ 1,
        Q48_w3 == "3" ~ 2,
        Q48_w3 == "4" ~ 3,
        Q48_w3 == "5" ~ 4
      )
  )

#check
table(is.na(final_drops$nonviol_change))

##
## FALSE TRUE
## 2094 479

#scale
final_drops <- final_drops %>%
  mutate(
    nonviol_change_scale = scale(nonviol_change),
    nonviol_change_scale_w3 = scale(nonviol_change_w3)
  )

#optimism about restoring civility
final_drops <- final_drops %>%
  mutate(
    optimism_civil = #create variable
      case_when(
        Q49_w2_w2 == "Strongly disagree" ~ 0,
        Q49_w2_w2 == "Somewhat disagree" ~ 1,
        Q49_w2_w2 == "Neither agree nor disagree" ~ 2,
        Q49_w2_w2 == "Somewhat agree" ~ 3,
        Q49_w2_w2 == "Strongly agree" ~ 4,
        Q49_w2_w2 == "1" ~ 0,
        Q49_w2_w2 == "2" ~ 1,
        Q49_w2_w2 == "3" ~ 2,
        Q49_w2_w2 == "4" ~ 3,
        Q49_w2_w2 == "5" ~ 4
      )
  )

#wave 3

```

```

final_drops <- final_drops %>%
  mutate(
    optimism_civil_w3 = #create variable
    case_when(
      Q49_w3 == "Strongly disagree" ~ 0,
      Q49_w3 == "Somewhat disagree" ~ 1,
      Q49_w3 == "Neither agree nor disagree" ~ 2,
      Q49_w3 == "Somewhat agree" ~ 3,
      Q49_w3 == "Strongly agree" ~ 4,
      Q49_w3 == "1" ~ 0,
      Q49_w3 == "2" ~ 1,
      Q49_w3 == "3" ~ 2,
      Q49_w3 == "4" ~ 3,
      Q49_w3 == "5" ~ 4
    )
  )

```

```

#optimism about survival of democratic institutions
final_drops <- final_drops %>%
  mutate(
    optimism_survive = #create variable
    case_when(
      Q50_w2_w2 == "Strongly disagree" ~ 0,
      Q50_w2_w2 == "Somewhat disagree" ~ 1,
      Q50_w2_w2 == "Neither agree nor disagree" ~ 2,
      Q50_w2_w2 == "Somewhat agree" ~ 3,
      Q50_w2_w2 == "Strongly agree" ~ 4,
      Q50_w2_w2 == "1" ~ 0,
      Q50_w2_w2 == "2" ~ 1,
      Q50_w2_w2 == "3" ~ 2,
      Q50_w2_w2 == "4" ~ 3,
      Q50_w2_w2 == "5" ~ 4
    )
  )

```

```

#wave 3
final_drops <- final_drops %>%
  mutate(
    optimism_survive_w3 = #create variable
    case_when(
      Q50_w3 == "Strongly disagree" ~ 0,
      Q50_w3 == "Somewhat disagree" ~ 1,
      Q50_w3 == "Neither agree nor disagree" ~ 2,
      Q50_w3 == "Somewhat agree" ~ 3,
      Q50_w3 == "Strongly agree" ~ 4,
      Q50_w3 == "1" ~ 0,
      Q50_w3 == "2" ~ 1,
      Q50_w3 == "3" ~ 2,
      Q50_w3 == "4" ~ 3,
      Q50_w3 == "5" ~ 4
    )
  )

```

```
#optimism about: (1) survival of democratic institutions + (2) restoring civility + (3) overcoming polar
```

```
final_drops <- final_drops %>%  
  mutate(  
    optimism_survive_scale = scale(optimism_survive),  
    optimism_civil_scale = scale(optimism_civil),  
    optimism_pol_scale = scale(optimism_pol),  
    optimism_total = scale(optimism_survive +  
                          optimism_civil +  
                          optimism_pol)  
  )  
  
summary(final_drops$optimism_total)
```

```
##          V1  
## Min.      :-2.0320  
## 1st Qu.   :-0.8150  
## Median    : 0.0978  
## Mean      : 0.0000  
## 3rd Qu.   : 0.7063  
## Max.      : 2.2276  
## NA's     :479
```

```
#wave 3
```

```
final_drops <- final_drops %>%  
  mutate(  
    optimism_survive_scale_w3 = scale(optimism_survive_w3),  
    optimism_civil_scale_w3 = scale(optimism_civil_w3),  
    optimism_pol_scale_w3 = scale(optimism_pol_w3),  
    optimism_total_w3 =  
      scale(optimism_survive_w3 +  
            optimism_civil_w3 +  
            optimism_pol_w3)  
  )
```

```
#time to rebuild trust across political divide
```

```
#0 "Never" 1 "Over 25 years" 2 "10-20 years" 3 "5-10 years" 4 "0-5 years"
```

```
final_drops <- final_drops %>%  
  mutate(  
    rebuild_trust = #create variable  
    case_when(  
      Q51_w2 == "Never" ~ 0,  
      Q51_w2 == "Over 25 years" ~ 1,  
      Q51_w2 == "10-20 years" ~ 2,  
      Q51_w2 == "5-10 years" ~ 3,  
      Q51_w2 == "0-5 years" ~ 4,  
      Q51_w2 == "5" ~ 0,  
      Q51_w2 == "4" ~ 1,  
      Q51_w2 == "3" ~ 2,  
      Q51_w2 == "2" ~ 3,  
      Q51_w2 == "1" ~ 4,  
    ),  
    rebuild_trust_scale = scale(rebuild_trust)  
  )
```

```

#check
table(is.na(final_drops$rebuild_trust))

##
## FALSE TRUE
## 2094 479

#wave 3
final_drops <- final_drops %>%
  mutate(
    rebuild_trust_w3 = #create variable
    case_when(
      Q51_w3 == "Never" ~ 0,
      Q51_w3 == "Over 25 years" ~ 1,
      Q51_w3 == "10-20 years" ~ 2,
      Q51_w3 == "5-10 years" ~ 3,
      Q51_w3 == "0-5 years" ~ 4,
      Q51_w3 == "5" ~ 0,
      Q51_w3 == "4" ~ 1,
      Q51_w3 == "3" ~ 2,
      Q51_w3 == "2" ~ 3,
      Q51_w3 == "1" ~ 4,
    ),
    rebuild_trust_scale_w3 = scale(rebuild_trust_w3)
  )

```

```

#perception of unity among ordinary Americans
final_drops <- final_drops %>%
  mutate(
    unity = as.numeric(Q52_w2),
    unity = replace(unity, unity >100, NA),
    unity_scale = scale(unity)
  )

```

```

## Warning: There was 1 warning in `mutate()`.
## i In argument: `unity = as.numeric(Q52_w2)`.
## Caused by warning:
## ! NAs introduced by coercion

```

```

#check
summary(final_drops$unity_scale)

```

```

##          V1
## Min.     :-1.5547
## 1st Qu.  :-0.7164
## Median  :-0.1715
## Mean     : 0.0000
## 3rd Qu.  : 0.5830
## Max.     : 2.6368
## NA's     :653

```

```

table(is.na(final_drops$unity_scale))

```

```

##
## FALSE TRUE
## 1920 653

```

```

#wave 3
final_drops <- final_drops %>%
  mutate(
    unity_scale_w3 = as.numeric(Q52_w3),
    unity_scale_w3 = replace(unity_scale_w3, unity_scale_w3 >100, NA),
    unity_scale_w3 = scale(unity_scale_w3)
  )

```

```

## Warning: There was 1 warning in `mutate()`.
## i In argument: `unity_scale_w3 = as.numeric(Q52_w3)`.
## Caused by warning:
## ! NAs introduced by coercion

```

```

#belief in dialogue
final_drops <- final_drops %>%
  mutate(
    dialogue = as.numeric(Q53_w2),
    dialogue = replace(dialogue, dialogue >100, NA),
    dialogue_scale = scale(dialogue)
  )

```

```

## Warning: There was 1 warning in `mutate()`.
## i In argument: `dialogue = as.numeric(Q53_w2)`.
## Caused by warning:
## ! NAs introduced by coercion

```

```

#wave 3
final_drops <- final_drops %>%
  mutate(
    dialogue_scale_w3 = as.numeric(Q53_w3),
    dialogue_scale_w3 = replace(dialogue_scale_w3, dialogue_scale_w3 >100, NA),
    dialogue_scale_w3 = scale(dialogue_scale_w3)
  )

```

```

## Warning: There was 1 warning in `mutate()`.
## i In argument: `dialogue_scale_w3 = as.numeric(Q53_w3)`.
## Caused by warning:
## ! NAs introduced by coercion

```

Partisan Understanding / Open-Mindedness

How well do the following statements describe you?

#partisan understanding 1: I sometimes find it difficult to see things from a OUTPARTY's point of view

```

final_drops <- final_drops %>%
  mutate(
    understand1 =
      case_when(
        Q39_w2_w2 == "Extremely well" ~ 0,
        Q39_w2_w2 == "Very well" ~ 1,
        Q39_w2_w2 == "Moderately well" ~ 2,
        Q39_w2_w2 == "Slightly well" ~ 3,
        Q39_w2_w2 == "Not well at all" ~ 4,
        Q39_w2_w2 == "5" ~ 0,
        Q39_w2_w2 == "4" ~ 1,
        Q39_w2_w2 == "3" ~ 2,

```

```

    Q39_w2_w2 == "2" ~ 3,
    Q39_w2_w2 == "1" ~ 4
  )
)

#check
table(is.na(final_drops$understand1))

```

```

##
## FALSE TRUE
## 2096 477

```

```

#wave 3
final_drops <- final_drops %>%
  mutate(
    understand1_w3 =
      case_when(
        Q39_w3 == "Extremely well" ~ 0,
        Q39_w3 == "Very well" ~ 1,
        Q39_w3 == "Moderately well" ~ 2,
        Q39_w3 == "Slightly well" ~ 3,
        Q39_w3 == "Not well at all" ~ 4,
        Q39_w3 == "5" ~ 0,
        Q39_w3 == "4" ~ 1,
        Q39_w3 == "3" ~ 2,
        Q39_w3 == "2" ~ 3,
        Q39_w3 == "1" ~ 4
      )
  )

```

#partisan understanding 2: I sometimes try to understand OUTPARTYs better by imagining how things look

```

final_drops <- final_drops %>%
  mutate(
    understand2 =
      case_when(
        Q40_w2_w2 == "Extremely well" ~ 4,
        Q40_w2_w2 == "Very well" ~ 3,
        Q40_w2_w2 == "Moderately well" ~ 2,
        Q40_w2_w2 == "Slightly well" ~ 1,
        Q40_w2_w2 == "Not well at all" ~ 0,
        Q40_w2_w2 == "5" ~ 0,
        Q40_w2_w2 == "4" ~ 1,
        Q40_w2_w2 == "3" ~ 2,
        Q40_w2_w2 == "2" ~ 3,
        Q40_w2_w2 == "1" ~ 4
      )
  )

```

```

#wave 3
final_drops <- final_drops %>%
  mutate(
    understand2_w3 =
      case_when(
        Q40_w3 == "Extremely well" ~ 4,

```

```

Q40_w3 == "Very well" ~ 3,
Q40_w3 == "Moderately well" ~ 2,
Q40_w3 == "Slightly well" ~ 1,
Q40_w3 == "Not well at all" ~ 0,
Q40_w3 == "5" ~ 0,
Q40_w3 == "4" ~ 1,
Q40_w3 == "3" ~ 2,
Q40_w3 == "2" ~ 3,
Q40_w3 == "1" ~ 4
)
)

#combined measure (scaled)
final_drops <- final_drops %>%
  mutate(
    understand1_rev = rev(understand1),
    understand1_w3_rev = rev(understand1_w3),
    understand_total = scale(understand1_rev+understand2),
    understand_total_w3 = scale(understand1_w3_rev+understand2_w3)
  )

```

Q45_w2_w2 - It is not worth my time trying to listen OUTPARTY to talk about politics Q46_w2_w2 - People should listen to concerns of party.

```

#clean tolerance
final_drops <- final_drops %>%
  mutate(
    empathy1 = case_when( #reverse code it...
      Q45_w2_w2 == "Strongly disagree" ~ 0,
      Q45_w2_w2 == "Somewhat disagree" ~ 1,
      Q45_w2_w2 == "Neither agree nor disagree" ~ 2,
      Q45_w2_w2 == "Somewhat agree" ~ 3,
      Q45_w2_w2 == "Strongly agree" ~ 4,
      Q45_w2_w2 == "1" ~ 0,
      Q45_w2_w2 == "2" ~ 1,
      Q45_w2_w2 == "3" ~ 2,
      Q45_w2_w2 == "4" ~ 3,
      Q45_w2_w2 == "5" ~ 4
    ),
    empathy2 = case_when(
      Q46_w2_w2 == "Strongly disagree" ~ 0,
      Q46_w2_w2 == "Somewhat disagree" ~ 1,
      Q46_w2_w2 == "Neither agree nor disagree" ~ 2,
      Q46_w2_w2 == "Somewhat agree" ~ 3,
      Q46_w2_w2 == "Strongly agree" ~ 4,
      Q46_w2_w2 == "1" ~ 0,
      Q46_w2_w2 == "2" ~ 1,
      Q46_w2_w2 == "3" ~ 2,
      Q46_w2_w2 == "4" ~ 3,
      Q46_w2_w2 == "5" ~ 4
    )
  )

#reverse code empathy 1
final_drops <- final_drops %>%

```

```

mutate(
  empathy1_rev = rev(empathy1)
)

#index
final_drops <- final_drops %>%
  mutate(
    empathy_scale = scale(empathy1_rev+empathy2)
  )

```

Demographics / Covariates

```

table(is.na(final_drops$birthyr))

##
## FALSE TRUE
## 2452 121

check <- intersect(final_drops$birthyr, final_drops$birthyr.y)

#prepare birthyear
final_drops <- final_drops %>%
  mutate(
    birthyr = coalesce(birthyr,birthyr.x, birthyr.y), #birth year
  )

#demographics
final_drops <- final_drops %>%
  mutate(
    age = 2022 - birthyr, #age at the time taking the survey
    reg_vote = #voter reg
    case_when(
      votereg == "Yes" ~ 1,
      votereg == "No" ~ 0,
      votereg.x == "1" ~ 1,
      votereg.x == "2" ~ 0,
      votereg.y == "1" ~ 1,
      votereg.y == "2" ~ 0,
    ),
    sex = #gender
    case_when(
      gender == "Female" ~ 1,
      gender == "Male" ~ 0,
      gender.x == "2" ~ 1,
      gender.x == "1" ~ 0,
      gender.y == "2" ~ 1,
      gender.y == "1" ~ 0
    ),
    race_2 = #race
    as.factor(case_when(
      race == "White" ~ 0,
      race == "Black" ~ 1,
      race == "Hispanic" ~ 2,

```

```

race == "Other" ~ 3,
race == "Asian" ~ 4,
race == "Two or more races" ~ 5,
race == "Native American" ~ 6,
race == "Middle Eastern" ~ 7,
race.x == "1" ~ 0,
race.x == "2" ~ 1,
race.x == "3" ~ 2,
race.x == "7" ~ 3,
race.x == "4" ~ 4,
race.x == "6" ~ 5,
race.x == "5" ~ 6,
race.x == "8" ~ 7,
race.y == "1" ~ 0,
race.y == "2" ~ 1,
race.y == "3" ~ 2,
race.y == "7" ~ 3,
race.y == "4" ~ 4,
race.y == "6" ~ 5,
race.y == "5" ~ 6,
race.y == "8" ~ 7,
)),
white = # white vs. non-white
  if_else(
    race_2 == 0, 1, 0
  ),
region_2 = #region
  as.factor(case_when(
    region == "West" ~ 0,
    region == "Midwest" ~ 1,
    region == "Northeast" ~ 2,
    region == "South" ~ 3,
    region.x == "4" ~ 0,
    region.x == "2" ~ 1,
    region.x == "1" ~ 2,
    region.x == "3" ~ 3,
    region.y == "4" ~ 0,
    region.y == "2" ~ 1,
    region.y == "1" ~ 2,
    region.y == "3" ~ 3
  )),
educ_2 = #education
  as.factor(case_when(
    educ == "No HS" ~ 0,
    educ == "High school graduate" ~ 1,
    educ == "Some college" ~ 2,
    educ == "2-year" ~ 3,
    educ == "4-year" ~ 4,
    educ == "Post-grad" ~ 5,
    educ.x == "1" ~ 0,
    educ.x == "2" ~ 1,
    educ.x == "3" ~ 2,
    educ.x == "4" ~ 3,

```

```

educ.x == "5" ~ 4,
educ.x == "6" ~ 5,
educ.y == "1" ~ 0,
educ.y == "2" ~ 1,
educ.y == "3" ~ 2,
educ.y == "4" ~ 3,
educ.y == "5" ~ 4,
educ.y == "6" ~ 5
)),
educ_dum = #education 4-year college+ or not.
case_when(
  educ_2 == 0 ~ 0,
  educ_2 == 1 ~ 0,
  educ_2 == 2 ~ 0,
  educ_2 == 3 ~ 0,
  educ_2 == 4 ~ 1,
  educ_2 == 5 ~ 1
),
marr = #married status
as.factor(case_when(
  marstat == "Married" ~ 0,
  marstat == "Domestic / civil partnership" ~ 1,
  marstat == "Never married" ~ 2,
  marstat == "Divorced" ~ 3,
  marstat == "Widowed" ~ 4,
  marstat == "Separated" ~ 5,
  marstat.x == "1" ~ 0,
  marstat.x == "6" ~ 1,
  marstat.x == "5" ~ 2,
  marstat.x == "3" ~ 3,
  marstat.x == "4" ~ 4,
  marstat.x == "2" ~ 5,
  marstat.y == "1" ~ 0,
  marstat.y == "6" ~ 1,
  marstat.y == "5" ~ 2,
  marstat.y == "3" ~ 3,
  marstat.y == "4" ~ 4,
  marstat.y == "2" ~ 5
)),
marr_dum = #currently married dummy
case_when(
  marr == 0 ~ 1,
  marr == 1 ~ 1,
  marr == 2 ~ 0,
  marr == 3 ~ 0,
  marr == 4 ~ 0,
  marr == 5 ~ 0
),
income = #income
as.factor(case_when(
  faminc_new == "Less than $10,000" ~ 0,
  faminc_new == "$10,000 - $19,999" ~ 1,
  faminc_new == "$20,000 - $29,999" ~ 2,

```

```

faminc_new == "$30,000 - $39,999" ~ 3,
faminc_new == "$40,000 - $49,999" ~ 4,
faminc_new == "$50,000 - $59,999" ~ 5,
faminc_new == "$60,000 - $69,999" ~ 6,
faminc_new == "$70,000 - $79,999" ~ 7,
faminc_new == "$80,000 - $99,999" ~ 8,
faminc_new == "$100,000 - $119,999" ~ 9,
faminc_new == "$120,000 - $149,999" ~ 10,
faminc_new == "$150,000 - $199,999" ~ 11,
faminc_new == "$200,000 - $249,999" ~ 12,
faminc_new == "$250,000 - $349,999" ~ 13,
faminc_new == "$350,000 - $499,999" ~ 14,
faminc_new == "$500,000 or more" ~ 15,
faminc_new.x == "1" ~ 0,
faminc_new.x == "2" ~ 1,
faminc_new.x == "3" ~ 2,
faminc_new.x == "4" ~ 3,
faminc_new.x == "5" ~ 4,
faminc_new.x == "6" ~ 5,
faminc_new.x == "7" ~ 6,
faminc_new.x == "8" ~ 7,
faminc_new.x == "9" ~ 8,
faminc_new.x == "10" ~ 9,
faminc_new.x == "11" ~ 10,
faminc_new.x == "12" ~ 11,
faminc_new.x == "13" ~ 12,
faminc_new.x == "14" ~ 13,
faminc_new.x == "15" ~ 14,
faminc_new.x == "16" ~ 15,
faminc_new.y == "1" ~ 0,
faminc_new.y == "2" ~ 1,
faminc_new.y == "3" ~ 2,
faminc_new.y == "4" ~ 3,
faminc_new.y == "5" ~ 4,
faminc_new.y == "6" ~ 5,
faminc_new.y == "7" ~ 6,
faminc_new.y == "8" ~ 7,
faminc_new.y == "9" ~ 8,
faminc_new.y == "10" ~ 9,
faminc_new.y == "11" ~ 10,
faminc_new.y == "12" ~ 11,
faminc_new.y == "13" ~ 12,
faminc_new.y == "14" ~ 13,
faminc_new.y == "15" ~ 14,
faminc_new.y == "16" ~ 15,
)),
  income_2 = #income 2, fewer categories (0-50k, 50k-100k, 100k-250k, >250k)
as.factor(case_when(
  income == 0 ~ 0,
  income == 1 ~ 0,
  income == 2 ~ 0,
  income == 3 ~ 0,
  income == 4 ~ 0,

```

```

income == 5 ~ 1,
income == 6 ~ 1,
income == 7 ~ 1,
income == 8 ~ 1,
income == 9 ~ 2,
income == 10 ~ 2,
income == 11 ~ 2,
income == 12 ~ 2,
income == 13 ~ 3,
income == 14 ~ 3,
income == 15 ~ 3
)),
job = #employment
case_when(
  employ == "Full-time" ~ 1,
  employ == "Part-time" ~ 1,
  employ == "Retired" ~ 0,
  employ == "Homemaker" ~ 0,
  employ == "Student" ~ 0,
  employ == "Permanently disabled" ~ 0,
  employ == "Unemployed" ~ 0,
  employ == "Other" ~ 0,
  employ == "Temporarily laid off" ~ 0,
  employ.x == "1" ~ 1,
  employ.x == "2" ~ 1,
  employ.x == "5" ~ 0,
  employ.x == "7" ~ 0,
  employ.x == "8" ~ 0,
  employ.x == "6" ~ 0,
  employ.x == "4" ~ 0,
  employ.x == "9" ~ 0,
  employ.x == "3" ~ 0,
  employ.y == "1" ~ 1,
  employ.y == "2" ~ 1,
  employ.y == "5" ~ 0,
  employ.y == "7" ~ 0,
  employ.y == "8" ~ 0,
  employ.y == "6" ~ 0,
  employ.y == "4" ~ 0,
  employ.y == "9" ~ 0,
  employ.y == "3" ~ 0,
  employ_t == "Full time job plus part time job" ~ 1,
  employ_t == "Part time student work fulltime" ~ 1,
  employ_t == "Permanently disabled and work part time" ~ 1,
  employ_t == "Retired but working very hard anyway" ~ 0,
  employ_t == "self employed" ~ 1,
  employ_t == "Self employed" ~ 1,
  employ_t == "Student and part time working" ~ 1
),
child = #child under 18 in household
case_when(
  child18 == "Yes" ~ 1,
  child18 == "No" ~ 0,

```

```

child18.x == "1" ~ 1,
child18.x == "2" ~ 0,
child18.y == "1" ~ 1,
child18.y == "2" ~ 0
),
relig = #religion
case_when(
  religpew == "Protestant" ~ 1,
  religpew == "Roman Catholic" ~ 2,
  religpew == "Mormon" ~3,
  religpew == "Eastern or Greek Orthodox" ~4,
  religpew == "Jewish" ~5,
  religpew == "Muslim" ~6,
  religpew == "Buddhist" ~7,
  religpew == "Hindu" ~8,
  religpew == "Atheist" ~9,
  religpew == "Agnostic" ~10,
  religpew == "Nothing in particular" ~11,
  religpew == "Something else" ~12,
  religpew.x == "1" ~ 1,
  religpew.x == "2" ~2,
  religpew.x == "3" ~3,
  religpew.x == "4" ~4,
  religpew.x == "5" ~5,
  religpew.x == "6" ~6,
  religpew.x == "7" ~7,
  religpew.x == "8" ~8,
  religpew.x == "9" ~9,
  religpew.x == "10" ~10,
  religpew.x == "11" ~11,
  religpew.x == "12" ~12,
  religpew.y == "1" ~ 1,
  religpew.y == "2" ~2,
  religpew.y == "3" ~3,
  religpew.y == "4" ~4,
  religpew.y == "5" ~5,
  religpew.y == "6" ~6,
  religpew.y == "7" ~7,
  religpew.y == "8" ~8,
  religpew.y == "9" ~9,
  religpew.y == "10" ~10,
  religpew.y == "11" ~11,
  religpew.y == "12" ~12,
  religpew == "skipped" ~ NA_real_,
  religpew.x == "98" ~ NA_real_
  #religpew_t != "__NA__" ~ 11,
),
christian = #religion, christian or not dummy
case_when(
  religpew_t == "Apostolic pentecostal" ~ 1,
  religpew_t == "Apostolic/ Pentecostal" ~ 1,
  religpew_t == "Baptist" ~ 1,
  religpew_t == "Baptist Christian" ~ 1,

```

```

religpew_t == "Christ" ~ 1,
religpew_t == "christain" ~ 1,
religpew_t == "Christen" ~ 1,
religpew_t == "Christian" ~ 1,
religpew_t == "Christian, Non-Denominational" ~ 1,
religpew_t == "Jehovahs witnesses" ~ 1,
religpew_t == "Episcopal" ~ 1,
religpew_t == "Greek Catholic" ~ 1,
religpew_t == "I have a relationship with Jesus christ" ~ 1,
religpew_t == "Non Denominational Christian" ~ 1,
religpew_t == "Spiritual and a Christian" ~ 1,
religpew_t == "Non denominational" ~1,
religpew_t == "Canthiest" ~ 0,
religpew_t == "I believe in a higher power. I believe in energy." ~ 0,
religpew_t == "Muslim" ~ 0,
religpew_t == "Neopagan with druidic roots" ~ 0,
religpew_t == "Nihilist" ~ 0,
religpew_t == "Norse pagen" ~ 0,
religpew_t == "Unitarian Universalist" ~ 0,
religpew_t == "Wiccan" ~ 0,
religpew_t == "wiccian"~0,
relig == 1 ~ 1, #Protestant
relig == 2 ~ 1, #Roman Catholic
relig == 3 ~ 0,
relig == 4 ~ 1, #Eastern or Greek Orthodox
relig == 5 ~ 0,
relig == 6 ~ 0,
relig == 7 ~ 0,
relig == 8 ~ 0,
relig == 9 ~ 0,
relig == 10 ~ 0,
relig == 11 ~ 0,
relig == 12 ~ 0
),
vote_2020 = #2020 presidential vote
as.factor(case_when(
  presvote20post == "Joe Biden" ~ 0,
  presvote20post == "Donald Trump" ~ 1,
  presvote20post == "Did not vote for President" ~ 2,
  presvote20post == "Howie Hawkins" ~ 2,
  presvote20post == "Jo Jorgensen" ~ 2,
  presvote20post == "Other" ~ 2,
  presvote20post.x == "1" ~ 0,
  presvote20post.x == "2" ~ 1,
  presvote20post.x == "6" ~ 2,
  presvote20post.x == "4" ~ 2,
  presvote20post.x == "3" ~ 2,
  presvote20post.x == "5" ~ 2,
  presvote20post.y == "1" ~ 0,
  presvote20post.y == "2" ~ 1,
  presvote20post.y == "6" ~ 2,
  presvote20post.y == "4" ~ 2,
  presvote20post.y == "3" ~ 2,

```

```

    presvote20post.y == "5" ~ 2,
    presvote20post.t != "__NA__" ~ 2
  )),
  vote_2016 = #2016 presidential vote
  as.factor(case_when(
    presvote16post == "Did not vote for President" ~ 2,
    presvote16post == "Hillary Clinton" ~ 0,
    presvote16post == "Donald Trump" ~ 1,
    presvote16post == "Gary Johnson" ~ 2,
    presvote16post == "Jill Stein" ~ 2,
    presvote16post == "Evan McMullin" ~ 2,
    presvote16post == "Other" ~ 2,
    presvote16post.x == "7" ~ 2,
    presvote16post.x == "1" ~ 0,
    presvote16post.x == "2" ~ 1,
    presvote16post.x == "3" ~ 2,
    presvote16post.x == "4" ~ 2,
    presvote16post.x == "5" ~ 2,
    presvote16post.x == "6" ~ 2,
    presvote16post.y == "7" ~ 2,
    presvote16post.y == "1" ~ 0,
    presvote16post.y == "2" ~ 1,
    presvote16post.y == "3" ~ 2,
    presvote16post.y == "4" ~ 2,
    presvote16post.y == "5" ~ 2,
    presvote16post.y == "6" ~ 2,
    presvote16post.t == "Hillary Clinton" ~ 0,
    presvote16post.t != "__NA__" ~ 2
  )),
  ideology_yg = #ideology
  case_when(
    ideo5 == "Not sure" ~ 0,
    ideo5 == "Very liberal" ~ 1,
    ideo5 == "Liberal" ~ 2,
    ideo5 == "Moderate" ~ 3,
    ideo5 == "Conservative" ~ 4,
    ideo5 == "Very conservative" ~ 5,
    ideo5.x == "6" ~ 0,
    ideo5.x == "1" ~ 1,
    ideo5.x == "2" ~ 2,
    ideo5.x == "3" ~ 3,
    ideo5.x == "4" ~ 4,
    ideo5.x == "5" ~ 5,
    ideo5.y == "6" ~ 0,
    ideo5.y == "1" ~ 1,
    ideo5.y == "2" ~ 2,
    ideo5.y == "3" ~ 3,
    ideo5.y == "4" ~ 4,
    ideo5.y == "5" ~ 5
  ),
  news_interest = #interest in news/politics
  case_when(
    newsint == "Hardly at all" ~ 0,

```

```

newsint == "Only now and then" ~ 1,
newsint == "Some of the time" ~ 2,
newsint == "Most of the time" ~ 3,
newsint.x == "4" ~ 0,
newsint.x == "3" ~ 1,
newsint.x == "2" ~ 2,
newsint.x == "1" ~ 3,
newsint.y == "4" ~ 0,
newsint.y == "3" ~ 1,
newsint.y == "2" ~ 2,
newsint.y == "1" ~ 3
),
turnout2020 = #2020 turnout
case_when(
  turnout20post == "Yes" ~ 1,
  turnout20post == "No" ~ 0,
  turnout20post.x == "1" ~ 1,
  turnout20post.x == "2" ~ 0,
  turnout20post.y == "1" ~ 1,
  turnout20post.y == "2" ~ 0
)
)

```

```

#list of covariates
complete_covars <- paste("partyID", "ideology_yg", "age", "sex", "white", "educ_dum", "region_2", sep = ",")

all_covars <- c("marr_dum", "christian", "child", "turnout2020", "job", "partyID", "ideology_yg", "age")

#list of missing covariates
missing_covars <- c("marr_dum", "christian", "child", "turnout2020", "job")

#check participants
final_drops <- final_drops %>%
  mutate(missers =
    if_else(is.na(marr_dum), 1, 0) &
    if_else(is.na(christian), 1, 0) &
    if_else(is.na(child), 1, 0) &
    if_else(is.na(turnout2020), 1, 0) &
    if_else(is.na(job), 1, 0)
  ),
  missers_any =
    if_else(is.na(marr_dum), 1, 0) |
    if_else(is.na(christian), 1, 0) |
    if_else(is.na(child), 1, 0) |
    if_else(is.na(turnout2020), 1, 0) |
    if_else(is.na(job), 1, 0)
  )
)

#there are 17 participants who are chronic missers (for both clean and drops sample)
table(final_drops$missers)

```

Impute missing demographic values

```

##
## FALSE TRUE
## 2556 17
table(final_drops$missers_any) #49/51 (clean/drops)

##
## FALSE TRUE
## 2524 49
####Using MICE####

#create dataframe for imputation + caseid
covar_df <- final_drops %>%
  dplyr::select(all_of(all_covars))

#impute missing values (default: PMM and Multinomial Logit; does it 5 times, takes average)
imp_covars <- mice(covar_df, m=5, maxit = 1)

##
## iter imp variable
## 1 1 marr_dum christian child turnout2020 job
## 1 2 marr_dum christian child turnout2020 job
## 1 3 marr_dum christian child turnout2020 job
## 1 4 marr_dum christian child turnout2020 job
## 1 5 marr_dum christian child turnout2020 job

#enter into dataset, remove complete variables, and name as imputed variable (retain caseid)
test <- complete(imp_covars) %>%
  dplyr::select(missing_covars) %>%
  rename_at(vars(missing_covars), ~ paste0(.x, "_imp"))

## Warning: Using an external vector in selections was deprecated in tidysselect 1.1.0.
## i Please use `all_of()` or `any_of()` instead.
## # Was:
## data %>% select(missing_covars)
##
## # Now:
## data %>% select(all_of(missing_covars))
##
## See <https://tidysselect.r-lib.org/reference/faq-external-vector.html>.
## This warning is displayed once every 8 hours.
## Call `lifecycle::last_lifecycle_warnings()` to see where this warning was
## generated.

#recombine with real data
final_drops <- cbind(final_drops, test)

#remove test / imp_covars
remove(test)
remove(imp_covars)

```

Moderators

```

final_drops <- final_drops %>%
  mutate(

```

```

truth_fox = coalesce(as.numeric(Q9), as.numeric(q9)), #Fox News
truth_fox = replace(truth_fox, truth_fox > 100, NA),
truth_nyt = coalesce(as.numeric(Q10), as.numeric(q10)), #NYT
truth_nyt = replace(truth_nyt, truth_nyt > 100, NA),
truth_wsj = coalesce(as.numeric(Q11), as.numeric(q11)), #WSJ
truth_wsj = replace(truth_wsj, truth_wsj > 100, NA),
truth_npr = coalesce(as.numeric(Q12), as.numeric(q12)), #NPR
truth_npr = replace(truth_npr, truth_npr > 100, NA),
truth_soc = coalesce(as.numeric(Q13), as.numeric(q13)), #twitter/FB
truth_soc = replace(truth_soc, truth_soc > 100, NA)
)

```

```

## Warning: There were 5 warnings in `mutate()`.
## The first warning was:
## i In argument: `truth_fox = coalesce(as.numeric(Q9), as.numeric(q9))`.
## Caused by warning in `list2()`:
## ! NAs introduced by coercion
## i Run `dplyr::last_dplyr_warnings()` to see the 4 remaining warnings.

```

```
table(is.na(final_drops$truth_soc))
```

```

##
## FALSE TRUE
## 2311 262

```

```
#create index of average perception of truthfulness in all media
```

```
#create scaled items
```

```
final_drops <- final_drops %>%
```

```
  mutate(
    fox_scale = scale(truth_fox),
    nyt_scale = scale(truth_nyt),
    wsj_scale = scale(truth_wsj),
    npr_scale = scale(truth_npr),
    soc_scale = scale(truth_soc)
  )

```

```
#create keys
```

```
keys_media <- list(
  final_drops=cs(fox_scale, nyt_scale, wsj_scale, npr_scale, soc_scale)
)

```

```
#alpha function
```

```
tmp_media <- alpha(final_drops, keys_media, check.keys = T, use ="pairwise")
```

```
## Number of categories should be increased in order to count frequencies.
```

```
#create indexed variable (noting that fox is automatically reverse coded here)
```

```
final_drops <- final_drops %>%
  mutate(
    truth_avg = tmp_media$scores
  )

```

```
#remove vestige
```

```
remove(tmp_media)
```

```

remove(keys_media)

#NYT/NPR vs. Fox News/WSJ
final_drops <- final_drops %>% #perceived truth of conservative outlets - liberal outlets
  mutate(
    truth_diff = (truth_fox+truth_wsj)
    -(truth_nyt+truth_npr),
    media_truth_idx = scale(truth_diff),
    media_truth_dum = case_when(
      media_truth_idx < median(media_truth_idx, na.rm=T) ~ 0, #less than median (liberal)
      media_truth_idx >= median(media_truth_idx, na.rm=T) ~ 1 #more than/equal median (conservative)
    )
  )

#separate
final_drops <- final_drops %>% #perceived truth of conservative outlets - democratic outlets
  mutate(
    media_cons = scale(truth_fox+truth_wsj)
  ,
    media_libs = scale(truth_nyt+truth_npr)
  )

#Identity fusion (A is farthest, G is closest)
final_drops <- final_drops %>%
  mutate(
    ID_fusion =
      case_when(
        Q8 == "A" ~ 0,
        Q8 == "B" ~ 1,
        Q8 == "C" ~ 2,
        Q8 == "D" ~ 3,
        Q8 == "E" ~ 4,
        Q8 == "F" ~ 5,
        Q8 == "G" ~ 6,
        Q8 == "1" ~ 0,
        Q8 == "2" ~ 1,
        Q8 == "3" ~ 2,
        Q8 == "4" ~ 3,
        Q8 == "5" ~ 4,
        Q8 == "6" ~ 5,
        Q8 == "7" ~ 6
      ),
    ID_fusion = replace(ID_fusion, ID_fusion > 6, NA)
  )

table(is.na(final_drops$ID_fusion))

##
## FALSE TRUE
## 2571    2

#Partisan strength
final_drops <- final_drops %>%
  mutate(

```

```

party_str =
  case_when(
    #Q7 == "not asked" ~ 0, #folks who chose ind/other
    Q7 == "Very weak" ~ 1,
    Q7 == "Weak" ~ 2,
    Q7 == "Neutral" ~ 3,
    Q7 == "Strong" ~ 4,
    Q7 == "Very strong" ~ 5,
    #Q7 == "9" ~ 0, #folks who chose ind/other
    Q7 == "5" ~ 1,
    Q7 == "4" ~ 2,
    Q7 == "3" ~ 3,
    Q7 == "2" ~ 4,
    Q7 == "1" ~ 5
  )
)

```

#This is not really usable since almost a 1000 participants were not asked partisan strength.

Not sure how to handle the “not sure” category here.

#ideology (excluding not sure). Ideology_yg variable includes not sure as 0.

```

final_drops <- final_drops %>%
  mutate(
    ideo = #ideology
    case_when(
      Q4 == "Very liberal" ~ 1,
      Q4 == "Liberal" ~ 2,
      Q4 == "Moderate" ~ 3,
      Q4 == "Conservative" ~ 4,
      Q4 == "Very conservative" ~5,
      Q4 == "1" ~ 1,
      Q4 == "2" ~ 2,
      Q4 == "3" ~ 3,
      Q4 == "4" ~ 4,
      Q4 == "5" ~ 5,
    ),
    ideo_scale = scale(ideo)
  )

```

```
table(is.na(final_drops$ideo))
```

```
##
## FALSE TRUE
## 2344 229
```

#How closely do you follow the news about govt and politics

```

final_drops <- final_drops %>%
  mutate(
    engage_news =
    case_when(
      Q1 == "Not at all" ~ 0,
      Q1 == "Not very closely" ~ 1,
      Q1 == "Somewhat closely" ~ 2,
      Q1 == "Very closely" ~ 3,
    )
  )

```

```

    Q1 == "4" ~ 0,
    Q1 == "3" ~ 1,
    Q1 == "2" ~ 2,
    Q1 == "1" ~ 3
  )
)

#Engagement in personal life (how often do you discuss govt or politics)
final_drops <- final_drops %>%
  mutate(
    engage_person =
      case_when(
        Q2 == "Less than monthly" ~ 0,
        Q2 == "A few times a month" ~ 1,
        Q2 == "A few times a week" ~ 2,
        Q2 == "Nearly everyday" ~ 3,
        Q2 == "4" ~ 0,
        Q2 == "3" ~ 1,
        Q2 == "2" ~ 2,
        Q2 == "1" ~ 3
      )
  )

#engage total
final_drops <- final_drops %>%
  mutate(
    engage_total =
      scale(engage_news+engage_person)
  )

table(is.na(final_drops$engage_total))

```

```

##
## FALSE TRUE
## 2571    2

```

Time stamps

```
table(is.na(final_drops$starttime))
```

```

##
## FALSE TRUE
## 2452   121

```

```

#get dates
final_drops <- final_drops %>%
  mutate(
    start_w1 = as.POSIXlt(starttime,tz="UTC", format = "%Y-%m-%d %H:%M:%OS"),
    start_w2_sub = gsub("T", " ", starttime_w2), #replace T with space
    start_w2_corr = substr(start_w2_sub, 0,19), #remove seconds
    start_w2 = as.POSIXlt.character(start_w2_corr, tz="UTC", format = "%Y-%m-%d %H:%M:%OS"),
    start_w3_sub = gsub("T", " ", starttime_w3),
    start_w3_corr = substr(start_w3_sub, 0, 19), #extract only the dates
    start_w3 = as.POSIXlt.character(start_w3_corr, tz="UTC", format = "%Y-%m-%d %H:%M:%OS"),
  )

```

```

end_w1 = as.POSIXlt(endtime, tz="UTC", format = "%Y-%m-%d %H:%M:%OS"),
end_w2_sub = gsub("T", " ", endtime_w2), #replace T with space
end_w2_corr = substr(end_w2_sub, 0,19), #remove seconds
end_w2 = as.POSIXlt.character(end_w2_corr, tz="UTC", format = "%Y-%m-%d %H:%M:%OS"),
end_w3_sub = gsub("T", " ", endtime_w3), #replace T with space
end_w3_corr = substr(end_w3_sub, 0,19), #remove seconds
end_w3 = as.POSIXlt.character(end_w3_corr, tz="UTC", format = "%Y-%m-%d %H:%M:%OS"),
)

#Create variable of time post-treatment
final_drops <- final_drops %>%
  mutate(
    post_treat_w2 = as.numeric(difftime(final_drops$start_w2,final_drops$start_w1, units = "hours")),
    post_treat_w3 = as.numeric(difftime(final_drops$start_w3,final_drops$start_w1, units = "days")),
    post_treat_w1_w2 = as.numeric(difftime(final_drops$end_w2,final_drops$end_w1, units = "hours")),
    post_treat_w1_w3 = as.numeric(difftime(final_drops$end_w3,final_drops$end_w1, units = "days")),
    post_treat_w2_w3 = as.numeric(difftime(final_drops$end_w3,final_drops$end_w2, units = "days")),
    w3_sent = as.numeric(difftime(final_drops$start_w3,final_drops$end_w2, units = "days")),
    post_treat_w2_start = as.numeric(difftime(final_drops$start_w2,final_drops$end_w1, units = "hours"))
  )

```

Attrition dummies

Attrition dummies v1 (affective polarization index only)

```

# dummy for attriter who is randomized (WITH bad cases)
final_drops <- final_drops %>%
  mutate(
    rand_attriter = if_else(is.na(aff_pol_idx), 1, 0), #dummy for w2 attriters
    rand_attriter_w3 = if_else(is.na(aff_pol_idx_w3), 1, 0), #dummy for w3 attriters
    matched_attriter_w1 = if_else(is.na(weight),1, 0), #matched w1 attriter
    matched_attriter_w2 = #matched w2 attriter
      if_else(is.na(weight_w2),1, 0) |
      if_else(is.na(aff_pol_idx), 1, 0),
    matched_attriter_w3 = #matched w3 attriter
      if_else(is.na(weight_w3),1, 0) |
      if_else(is.na(aff_pol_idx_w3), 1, 0)
  )

#dummy for matched down attriters across waves (not accounting for overlap)
final_drops <- final_drops %>%
  mutate(
    matchdown_attriters =
      case_when(
        matched_attriter_w1 == 1 ~ 1,
        matched_attriter_w2 == 1 ~ 1,
        matched_attriter_w3 == 1 ~ 1
      ),
    attriter_both =
      if_else(rand_attriter ==1,1,0) &
      if_else(rand_attriter_w3 ==1,1,0)
  )

```

Inverse Probability Weighting

Covariates to be used listed below. Fewer than 50 missing values.

- **Party_ID** = Republican (1) or Democrat (0)
- **Ideology_yg** = ideology, very liberal (1) to very conservative (5)
- **age** = participant age
- **sex** = male (0) or female (1)
- **white** = dummy for whether participant identifies as white or not
- **educ_dum** = dummy for whether participant has at least 4-year college degree or not
- **marr_dum** = dummy for whether participant is married/in domestic partnership or not
- **christian** = dummy for whether participant identifies as Christian
- **child** = dummy for whether participant has at least one child at home
- **turnout_2020** = dummy for whether participant voted in 2020 election
- **job** = dummy for employment status of participant (1= full or part-time employed)
- **region_2** = region where participant is from

```
####Reverse Code Attrition Dummy####
final_drops <- final_drops %>%
  mutate(
    resp_w2 = if_else(rand_attriter==1, 0, 1),
    resp_w3 = if_else(rand_attriter_w3==1, 0, 1),
    resp_matched_w2 = if_else(matched_attriter_w2==1, 0, 1),
    resp_matched_w3 = if_else(matched_attriter_w3==1, 0, 1)
  )

####IMPUTED COVARIATES####

####Wave 2 Full####

#regress attrition dummy on pretreatment covariates
interactions <- paste("treat_all*partyID", "ideology_yg*treat_all", "age*treat_all", "sex*treat_all",
#paste specification (response variable)
test_int1 <- paste("resp_w2 ~ ", interactions, sep = "")

#regress Logit
ipw_1 <- glm(test_int1, family = binomial(link = "logit"), final_drops)

#add inverted fitted values as weights
final_drops <- final_drops %>%
  mutate(
    ipw_full_w2 = 1/(ipw_1$fitted)
  )

table(final_drops$treat_all)

##
## 0 1 2 3 4
## 506 514 514 515 524

####Wave 3 Full####

#regress attrition dummy on pretreatment covariates
interactions <- paste("treat_all*partyID", "ideology_yg*treat_all", "age*treat_all", "sex*treat_all",
```

```

#paste specification
test_int2 <- paste("resp_w3 ~ ", interactions, sep = "")

#regress Logit
ipw_2 <- glm(test_int2, family = binomial(link = "logit"), final_drops)

#add inverted fitted values as weights
final_drops <- final_drops %>%
  mutate(
    ipw_full_w3 = 1/(ipw_2$fitted)
  )

####Wave 2 Nationally Representative####

#regress attrition dummy on pretreatment covariates
interactions <- paste("treat_all*partyID", "ideology_yg*treat_all", "age*treat_all", "sex*treat_all",

#paste specification
test_int3 <- paste("resp_matched_w2 ~ ", interactions, sep = "")

#regress Logit
ipw_3 <- glm(test_int3, family = binomial(link = "logit"), final_drops)

#add inverted fitted values as weights
final_drops <- final_drops %>%
  mutate(
    ipw_matched_w2 = (weight_w2)*(1/(ipw_3$fitted))
  )

####Wave 3 Nationally Representative####

interactions <- paste("treat_all*partyID", "ideology_yg*treat_all", "age*treat_all", "sex*treat_all",

#paste specification
test_int4 <- paste("resp_matched_w3 ~ ", interactions, sep = "")

#regress Logit
ipw_4 <- glm(test_int4, family = binomial(link = "logit"), final_drops)

#add inverted fitted values as weights
final_drops <- final_drops %>%
  mutate(
    ipw_matched_w3 = (weight_w3)*(1/(ipw_4$fitted))
  )

####NOT IMPUTED COVARIATES####

####Wave 2 Full####

#regress attrition dummy on pretreatment covariates
interactions1 <- paste("treat_all*partyID", "ideology_yg*treat_all", "age*treat_all", "sex*treat_all",

#paste specification
test_int5 <- paste("resp_w2 ~ ", interactions1, sep = "")

```

```

#regress Logit
ipw_5 <- glm(test_int5, family = binomial(link = "logit"), final_drops)

####Wave 3 Full####

#regress attrition dummy on pretreatment covariates
interactions1 <- paste("treat_all*partyID", "ideology_yg*treat_all", "age*treat_all", "sex*treat_all",

#paste specification
test_int6 <- paste("resp_w3 ~ ", interactions1, sep = "")

#regress Logit
ipw_6 <- glm(test_int6, family = binomial(link = "logit"), final_drops)

####Wave 2 Nationally Representative####

#regress attrition dummy on pretreatment covariates
interactions1 <- paste("treat_all*partyID", "ideology_yg*treat_all", "age*treat_all", "sex*treat_all",

#interactions1 <- paste("treat_all*partyID", "ideology_yg*treat_all", "age*treat_all", "sex*treat_all"

#paste specification
test_int7 <- paste("resp_matched_w2 ~ ", interactions1, sep = "")

#regress
ipw_7 <- glm(test_int7, family=binomial(link="logit"),final_drops)

####Wave 3 Nationally Representative####
interactions1 <- paste("treat_all*partyID", "ideology_yg*treat_all", "age*treat_all", "sex*treat_all",

#paste specification
test_int8 <- paste("resp_matched_w3 ~ ", interactions1, sep = "")

#regress
ipw_8 <- glm(test_int8, family=binomial(link="logit"),final_drops)

#add inverted fitted values as weights
tmp_df <- final_drops %>%
  filter(missers_any==0) %>%
  mutate(
    ipw_full_w2_noimp = 1/(ipw_5$fitted.values),
    ipw_full_w3_noimp = 1/(ipw_6$fitted.values),
    ipw_matched_w2_noimp = (weight_w2)*(1/(ipw_7$fitted.values)),
    ipw_matched_w3_noimp = (weight_w3)*(1/(ipw_8$fitted.values))
  ) %>%
  dplyr::select(caseid, ipw_full_w2_noimp, ipw_full_w3_noimp,
    ipw_matched_w2_noimp, ipw_matched_w3_noimp)

#remerge with full dataset
final_drops <- left_join(final_drops, tmp_df, by="caseid")

```

```

#remove tmp_df
remove(tmp_df)

####Check Correlations between Imputed and Not Imputed####

#check correlations between imputed and non-imputed
cor(final_drops$ipw_full_w2, final_drops$ipw_full_w2_noimp, use="complete.obs")

## [1] 0.9790348
cor(final_drops$ipw_matched_w2, final_drops$ipw_matched_w2_noimp, use="complete.obs")

## [1] 0.9984217
cor(final_drops$ipw_full_w3, final_drops$ipw_full_w3_noimp, use="complete.obs")

## [1] 0.9916268
cor(final_drops$ipw_matched_w3, final_drops$ipw_matched_w3_noimp, use="complete.obs")

## [1] 0.9987059
#looks right

```

```

long_placebo <- final_drops %>%
  filter(!is.na(treat_long_collapse2))

long_placebo_2 <- long_placebo %>%
  filter(!is.na(ipw_full_w2_noimp))

```

IPW based on Placebo vs. Long

```

#regress attrition dummy on pretreatment covariates
interactions <- paste("treat_long_collapse2*partyID", "ideology_yg*treat_long_collapse2", "age*treat_1

#paste specification
test_int1 <- paste("resp_w2 ~ ", interactions, sep = "")

#regress logit
ipw_1 <- glm(test_int1, family=binomial(link="logit"), long_placebo)

#add inverted fitted values as weights
long_placebo <- long_placebo %>%
  mutate(
    ipw_full_w2_v2 = 1/(ipw_1$fitted)
  )

#check
summary(long_placebo$ipw_full_w2)

```

Non-matched

```

##   Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
##  1.064  1.212   1.318   1.358   1.446   2.416

```

```
summary(long_placebo$ipw_full_w2_v2)
```

```
##   Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
##  1.064  1.212   1.318   1.358  1.446   2.416
```

```
#wave 3
```

```
#regress attrition dummy on pretreatment covariates
```

```
interactions <- paste("treat_long_collapse2*partyID", "ideology_yg*treat_long_collapse2", "age*treat_l
```

```
#paste specification
```

```
test_int2 <- paste("resp_w3 ~ ", interactions, sep = "")
```

```
#regress logit
```

```
ipw_2 <- glm(test_int2,family=binomial(link="logit"), long_placebo)
```

```
#add inverted fitted values as weights
```

```
long_placebo <- long_placebo %>%
  mutate(
    ipw_full_w3_v2 = 1/(ipw_2$fitted)
  )
```

```
#check
```

```
summary(long_placebo$ipw_full_w3)
```

```
##   Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
##  1.165  1.469   1.671   1.763  1.943   3.996
```

```
summary(long_placebo$ipw_full_w3_v2)
```

```
##   Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
##  1.165  1.469   1.671   1.763  1.943   3.996
```

```
#### No Imputation ####
```

```
#wave 2
```

```
interactions1 <- paste("treat_long_collapse2*partyID", "ideology_yg*treat_long_collapse2", "age*treat_l
```

```
#paste specification
```

```
test_int3 <- paste("resp_w2 ~ ", interactions1, sep = "")
```

```
#regress glm
```

```
ipw_3 <- glm(test_int3, family=binomial(link="logit"), long_placebo)
```

```
#wave 3
```

```
#paste specification
```

```
test_int4 <- paste("resp_w3 ~ ", interactions1, sep = "")
```

```
#regress logit
```

```
ipw_4 <- glm(test_int4, family=binomial(link="logit"), long_placebo)
```

```
#add inverted fitted values as weights
```

```
tmp_df <- long_placebo_2 %>%
  mutate(
    ipw_full_w2_noimp_v2 = 1/(ipw_3$fitted),
```

```

    ipw_full_w3_noimp_v2 = 1/(ipw_4$fitted)
  ) %>%
  dplyr::select(caseid, ipw_full_w2_noimp_v2, ipw_full_w3_noimp_v2)

#remerge
long_placebo <- left_join(long_placebo, tmp_df, by="caseid")

tmp_df2 <- long_placebo %>%
  dplyr::select(caseid, ipw_full_w2_v2, ipw_full_w3_v2, ipw_full_w2_noimp_v2, ipw_full_w3_noimp_v2)

#merge
final_drops <- left_join(final_drops, tmp_df2, by="caseid")

#correlations: looks good
cor(final_drops$ipw_full_w3_v2, final_drops$ipw_full_w3_noimp_v2, use = "complete.obs")

## [1] 0.9873464
cor(final_drops$ipw_full_w2_v2, final_drops$ipw_full_w2_noimp_v2, use = "complete.obs")

## [1] 0.9625286

#regress attrition dummy on pretreatment covariates
interactions <- paste("treat_long_collapse2*partyID", "ideology_yg*treat_long_collapse2", "age*treat_l

#paste specification
test_int1 <- paste("resp_matched_w2 ~ ", interactions, sep = "")

#regress logit
ipw_1 <- glm(test_int1, family=binomial(link = "logit"), long_placebo)

#add inverted fitted values as weights
long_placebo <- long_placebo %>%
  mutate(
    ipw_matched_w2_v2 = (weight_w2)*(1/(ipw_1$fitted))
  )

#wave 3

#regress attrition dummy on pretreatment covariates
interactions <- paste("treat_long_collapse2*partyID", "ideology_yg*treat_long_collapse2", "age*treat_l

#paste specification
test_int2 <- paste("resp_matched_w3 ~ ", interactions, sep = "")

#regress logit
ipw_2 <- glm(test_int2, family=binomial(link="logit"), long_placebo)

#add inverted fitted values as weights
long_placebo <- long_placebo %>%
  mutate(
    ipw_matched_w3_v2 = (weight_w3)*(1/(ipw_2$fitted))
  )

```

```

)

#### No Imputation ####

#wave 2
interactions1 <- paste("treat_long_collapse2*partyID", "ideology_yg*treat_long_collapse2", "age*treat_

#paste specification
test_int3 <- paste("resp_matched_w2 ~ ", interactions1, sep = "")

#regress logit
ipw_3 <- glm(test_int3, family=binomial(link="logit"), long_placebo)

#wave 3
#paste specification
test_int4 <- paste("resp_matched_w3 ~ ", interactions1, sep = "")

#regress logit
ipw_4 <- glm(test_int4, family=binomial(link="logit"), long_placebo)

#add inverted fitted values as weights
tmp_df <- long_placebo_2 %>%
  mutate(
    ipw_matched_w2_noimp_v2 = (weight_w2)*(1/(ipw_3$fitted)),
    ipw_matched_w3_noimp_v2 = (weight_w3)*(1/(ipw_4$fitted))
  ) %>%
  dplyr::select(caseid, ipw_matched_w2_noimp_v2, ipw_matched_w3_noimp_v2)

#remerge
long_placebo <- left_join(long_placebo, tmp_df, by="caseid")

tmp_df2 <- long_placebo %>%
  dplyr::select(caseid, ipw_matched_w2_v2, ipw_matched_w3_v2, ipw_matched_w2_noimp_v2, ipw_matched_w3_n

#merge
final_drops <- left_join(final_drops, tmp_df2, by="caseid")

#correlations: looks good
cor(final_drops$ipw_matched_w3_v2, final_drops$ipw_matched_w3_noimp_v2, use = "complete.obs")

Matched sample
## [1] 0.9980322
cor(final_drops$ipw_matched_w2_v2, final_drops$ipw_matched_w2_noimp_v2, use = "complete.obs")
## [1] 0.9979081

```

Attention checks

Manipulation check 1 (VC and full video): In the video, two of the participants, Kuwar and Greg, become fast friends. At the conclusion of the workshop, they decide to spend time together in each other's hometowns.

Where do they meet?

Correct answer: At their church and mosque respectively. However, at their favorite restaurant could also be plausibly correct while reflecting less careful attention (they share a meal at a restaurant but don't talk about the restaurant as their favorite)

Manipulation check 2 (PMC and full video): In the video, the workshop participants describe stereotypes about each political party. Which of the following was NOT discussed?

Correct answer is food preferences (e.g. fast food)

Placebo check: In the video, which migration of animals is the primary focus of the video?

Correct answer is wildebeest

```
final_drops <- final_drops %>%
  mutate(
    compliance1 = case_when(
      Q22 == "At their mosque and church, respectively" ~ 1, #correct
      Q22 == "At the local movie theater" ~ 0,
      Q22 == "At the local shopping mall" ~ 0,
      Q22 == "At their favorite restaurants" ~ 0,
      Q22 == "skipped" ~ 0,
      Q22 == "Not asked" ~ NA_real_,
      Q22 == "2" ~ 1, #correct
      Q22 == "1" ~ 0,
      Q22 == "3" ~ 0,
      Q22 == "4" ~ 0,
      Q22 == "8" ~ 0,
      Q22 == "9" ~ NA_real_
    ),

    compliance2 = case_when(
      Q23 == "Food preferences (e.g., fast food)" ~ 1, #correct
      Q23 == "Intolerance of others (e.g., immigrants)" ~ 0,
      Q23 == "Policy preferences (e.g., raising the minimum wage)" ~ 0,
      Q23 == "skipped" ~ 0,
      Q23 == "not asked" ~ NA_real_,
      Q23 == "2" ~ 1, #correct
      Q23 == "1" ~ 0,
      Q23 == "3" ~ 0,
      Q23 == "8" ~ 0,
      Q23 == "9" ~ NA_real_
    ),

    compliance1b = case_when(
      Q22 == "At their mosque and church, respectively" ~ 1, #correct
      Q22 == "At the local movie theater" ~ 0,
      Q22 == "At the local shopping mall" ~ 0,
      Q22 == "At their favorite restaurants" ~ 1, #also plausibly correct
      Q22 == "skipped" ~ 0,
      Q22 == "Not asked" ~ NA_real_,
      Q22 == "2" ~ 1, #correct
      Q22 == "1" ~ 1, #also plausibly correct
      Q22 == "3" ~ 0,
      Q22 == "4" ~ 0,
      Q22 == "8" ~ 0,
```

```

    Q22 == "9" ~ NA_real_
  ),

  compliance_placebo = case_when(
    Q24 == "Wildebeest" ~ 1, #correct
    Q24 == "Geese" ~ 0,
    Q24 == "Monarch butterflies" ~ 0,
    Q24 == "Gray whales" ~ 0,
    Q24 == "not asked" ~ NA_real_,
    Q24 == "1" ~ 1, #correct
    Q24 == "2" ~ 0,
    Q24 == "3" ~ 0,
    Q24 == "4" ~ 0,
    Q24 == "9" ~ NA_real_
  )
)

summary(final_drops$compliance1) #70% compliance

##   Min. 1st Qu.  Median    Mean 3rd Qu.    Max.   NA's
## 0.000 0.000  1.000  0.698  1.000  1.000  1646

summary(final_drops$compliance1b) #86% compliance

##   Min. 1st Qu.  Median    Mean 3rd Qu.    Max.   NA's
## 0.0000 1.0000  1.0000  0.8662  1.0000  1.0000  1646

summary(final_drops$compliance2) #82% compliance

##   Min. 1st Qu.  Median    Mean 3rd Qu.    Max.   NA's
## 0.00  1.00  1.00  0.82  1.00  1.00  1651

summary(final_drops$compliance_placebo) #85% compliance

##   Min. 1st Qu.  Median    Mean 3rd Qu.    Max.   NA's
## 0.0000 1.0000  1.0000  0.8568  1.0000  1.0000  2119

#create indicators
final_drops <- final_drops %>%
  mutate(
    minimal_compliance = case_when(
      is.na(compliance1) | is.na(compliance2) | is.na(compliance1b) ~ NA_real_,
      compliance1 == 1 | compliance2 == 1 | compliance1b == 1 ~ 1,
      TRUE ~ 0
    ),
    medium_compliance = case_when(
      is.na(compliance1) | is.na(compliance2) ~ NA_real_,
      compliance1 == 1 | compliance2 == 1 ~ 1,
      TRUE ~ 0
    ),
    maximum_compliance = case_when(
      is.na(compliance1) | is.na(compliance2) ~ NA_real_,
      compliance1 == 1 & compliance2 == 1 ~ 1,
      TRUE ~ 0
    )
  )
)

```

```
summary(final_drops$medium_compliance)
```

```
##      Min. 1st Qu.  Median    Mean 3rd Qu.    Max.   NA's  
## 0.0000  1.0000  1.0000  0.8767  1.0000  1.0000  2135
```

Export Dataset Clean Dataset

```
####Modify working directory ####
```

```
write.csv(final_drops, file = "/Users/LAK/Brown Dropbox/Lee-Or Ankori-Karlinsky/Braver Angels Documenta
```